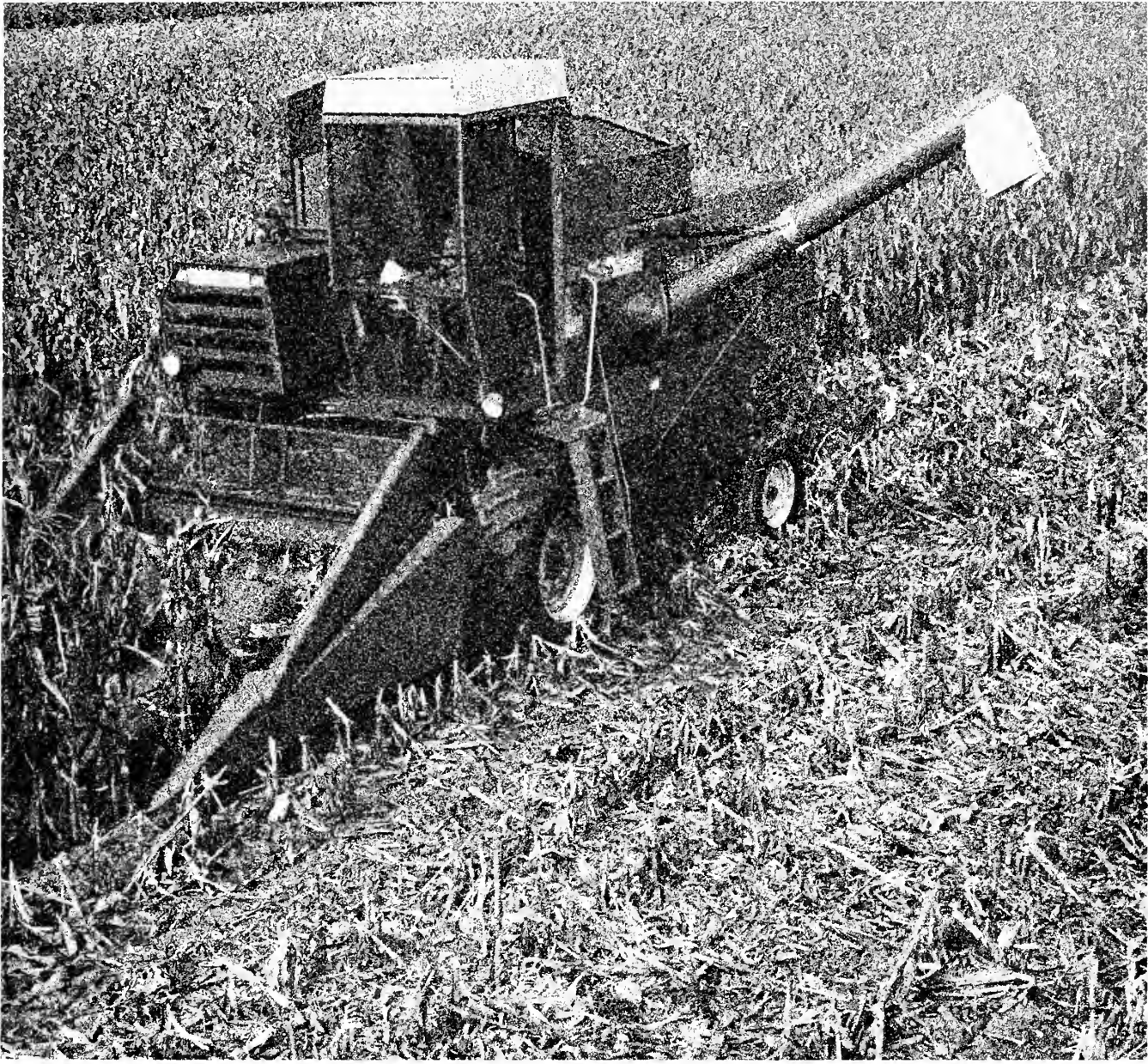


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1977 PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS

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Urbana, Illinois

January, 1978

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The Illinois Cooperative Extension Service provides equal opportunities in programs and employment.

PERFORMANCE OF COMMERCIAL CORN HYBRIDS IN ILLINOIS, 1977

(With 1975 and 1976 Listings)

CORN YIELDS IN ILLINOIS IN 1977 are estimated to average 109 bushels per acre. The 504 varieties over 11 locations in the state reported in this circular averaged 113 bushels per acre. The 1977 state yield was up 2 percent from 1976, and the trials reported in this circular were down 18 percent from 1976.

A dry April and May resulted in many fields being planted in late April and early May. Northern Illinois had a near perfect growing season with adequate rainfall throughout the season. Hot, dry weather in western Illinois during midsummer resulted in poor pollination. Eastern and southern Illinois experienced a near normal growing season with only brief periods of inadequate rainfall.

The large variations in yields among varieties in the 1977 test may be attributed largely to one or more of the following factors: (1) stalk rot, which caused severe lodging in some varieties of the Dixon Springs tests; (2) northern and western corn rootworms, which caused lodging problems at the DeKalb, Elwood, and Carthage fields; (3) drouth stress in western Illinois during midsummer, which resulted in poor pollination of several varieties. These adverse factors should be considered when comparing 1977 yields with those of past years. Varieties in this year's test that performed well even under such adverse conditions were at least tolerant to those conditions.

Plan of the Tests

Selection of entries. Each year, producers of hybrid seed corn in Illinois and surrounding states are invited to enter hybrids in the Illinois performance trials. This testing program is financed by a fee of \$35 for each hybrid at each location entered. Most of these hybrids are commercially available, although a few experimental hybrids are also entered. In 1977, a survey of popular hybrids was conducted among county Extension advisers, and the ten most popular hybrids at each test location were added to the trials. These hybrids are marked by an asterisk(*) in the tables.

Number and location of tests. In 1977, 18 major tests were conducted at 11 locations in the state (see the map on page 4). These sites represent major soil and climatic areas of the state.

Hybrids. There were 504 hybrids from 64 companies tested in 1977. Seed for the trials was obtained by the University of Illinois staff from warehouse stocks whenever possible.

Field-plot design. Three replications of lattice design were used to assure each entry an equal chance to show its merits.

Planting methods. All trials were planted by machine. All test fields except those at DeKalb, Carthage,

Brownstown, Elwood, and Urbana were part of larger cornfields and thus were bordered by other corn. Each hybrid plot was overplanted 30 percent and later thinned to desired stands. Each plot was four rows wide and 25 feet long. The center two rows of each plot were harvested to determine yields.

Fertilization. All test fields were at a high level of fertility. Additional fertilizer was plowed down or side-dressed as needed to assure top yields.

Method of harvest. All plots were harvested with a self-propelled combine. Shelled corn from each plot was collected, weighed, and tested for moisture content. No allowance was made for corn that might have been lost in harvest.

Measuring Performance

Grain moisture. Occasionally, hybrids too late in maturity for a given area are entered in these tests. Such hybrids are often high in yield, but their moisture content may make them poor choices for farm use unless proper drying or storage facilities are available.

Yield of grain. Shelled-corn weight and moisture percentage were measured for each plot of a hybrid and converted to bushels per acre of No. 2 shelled corn (15.5-percent moisture). An electronic moisture tester was used for all moisture readings.

Erect plants. The number of erect plants in each plot of a hybrid was counted at harvest time. Any plant leaning at an angle of more than 45 degrees or broken below the ear was considered lodged. Plants broken above the ear were considered erect.

Population. In late June, plants in all plots on all fields were counted and population computed. Plots with over 100 percent of the desired population were thinned at that time. Stand differences may be caused by failure to germinate or by damage from diseases, insects, cultivation, or animal pests.

Comparing hybrids. It is impossible to measure performance exactly in any test of plant material. Harvesting efficiency may vary, soils may not be uniform, and many other conditions can produce variability. Results of repeated tests, like those reported here, are more reliable than those of a single-year or a single-strip test. In general, a yield difference of a few bushels per acre is not significant in these tests. When one hybrid consistently outyields another at several test locations and over several years of testing, the chances are good that this difference is real and should be a consideration in choosing a hybrid. But yield alone is not enough. Consider also the grain moisture content, percentage of erect plants, percentage of stand, or the number of plants per acre in comparing yields.

A number of statistical tests are available for comparing hybrids. One of these tests, the least significant

difference (L.S.D.), when used in the manner suggested by Carmer and Swanson,¹ is quite simple to apply and is more appropriate than most other tests. When two hybrids are compared and the difference between them is greater than the tabulated L.S.D. value, the hybrids are judged to be "significantly different."

When the observed mean of hybrid A is larger than that of hybrid B and the difference between them is found to be significant, one of three possibilities has occurred: (1) the mean of hybrid A really is larger than that of hybrid B, and a correct decision has been made; (2) the means of hybrids A and B are really equal, and a Type I statistical error has been made (that is, the means were declared to be unequal when they were actually equal); or (3) the mean of hybrid B is really larger than that of hybrid A, and a reverse decision or Type III statistical error has been made (that is, the mean of A was declared to be greater than that of B, when the reverse is true).

When no significant difference is found between two hybrids, one of two possibilities has occurred: (1) the means are really equal and a correct decision has been made; or (2) the means are really different and a Type II statistical error has been made (that is, the means were declared to be equal when they really are different). In a study of the frequencies of occurrence of these three types of statistical errors and their relative seriousness, Carmer² found strong arguments for

¹ Carmer, S. G. and M. R. Swanson. "An Evaluation of Ten Pairwise Multiple Comparison Procedures by Monte Carlo Methods." *Journal of American Statistical Association* 68:66-74. 1973.

² Carmer, S. G. "Optimal Significance Levels for Application of the Least Significant Difference in Crop Performance Trials." *Crop Science* 16:95-99. 1976.

an optimal significance level in the range $\alpha = 0.20$ to 0.40, where α is the Type I statistical error rate for comparisons between means which are really equal. Herein, values of $\alpha = 0.10$ and 0.30 are used in computing the L.S.D. 10- and 30-percent levels shown in the tables. L.S.D. 10 and L.S.D. 30 are not calculated when the overall F test of differences among entries is not significant at the 5 percent level.

Growing Conditions at 1977 Test Fields (Tables 1 and 2)

Extreme Northern Illinois: Woodstock. This test field represents the cool, humid area of northeastern Illinois. The test plot was on land operated by the Hughes Farms and Seed Company, Robert and Earl Hughes, Jr., cooperators. The soil is Proctor silt loam: a fertile, deep, well-drained, dark prairie soil. Planting was completed May 14. Climatic conditions were good throughout the test.

Northern Illinois: DeKalb. This test was at the University of Illinois Northern Illinois Research Center, southwest of DeKalb. R.R. Bell is the field manager, and D.L. Mulvaney is in charge of research at the Center. The soil is Flanagan silt loam: a dark-brown, adequately drained soil of high fertility. Planting was completed May 3. Good growing conditions were prevalent throughout the season. Considerable corn rootworm damage was observed in the low-population test.

West North-Central Illinois: Galesburg-Wataga. This test was located on the Robson Farms, operated by John Robson. The test field is a highly fertile, heavy-

Table 1. — General Information: Illinois Hybrid Corn Tests, 1977

Field, county, location, and number of entries	Date planted	Date harvested	Average yield	Grain moisture	Erect plants	Average population
			bu./A.	perct.	perct.	per acre
40-inch rows, 20,000 plants per acre						
Woodstock: McHenry, Ex. N, 87...	May 14	Oct. 17	123	24.4	99	19,565
30-inch rows, 18,000 plants per acre						
Brownstown: Fayette, S, 49.....	May 10	Oct. 6-7	93	18.8	93	17,825
Carbondale: Jackson, Ex. S, 34.....	May 10	Oct. 4-5	94	17.5	97	16,864
30-inch rows, 20,000 plants per acre						
DeKalb: DeKalb, N, 81.....	May 3	Oct. 17-18	128	20.1	80	19,679
Galesburg: Knox, WNC, 72.....	April 29	Oct. 13-14	145	19.7	96	19,742
Urbana: Champaign, EC, 114.....	April 26	Sept. 22, 23, 26	135	24.8	98	19,683
Greenfield: Macoupin, WSC, 49.....	May 12	Oct. 10	92	19.7	91	19,546
Dixon Springs: Pope, Ex. S, 43.....	May 11	Oct. 3-4	131	20.4	85	19,657
30-inch rows, 22,000 plants per acre						
Brownstown: Fayette, S, 110.....	May 10	Oct. 6-7	77	18.7	91	21,621
Carbondale: Jackson, Ex. S, 75.....	May 10	Oct. 4-5	103	17.5	98	19,071
30-inch rows, 24,000 plants per acre						
DeKalb: DeKalb, N, 137.....	May 3	Oct. 17-18	151	20.9	95	23,165
Galesburg: Knox, WNC, 123.....	April 29	Oct. 13-14	145	19.8	95	23,364
Elwood: Will, ENC, 110.....	May 2	Oct. 19	113	19.9	98	21,963
Carthage: Hancock, WC, 81.....	April 28	Sept. 27	77	23.0	95	22,105
Hartsburg: Logan, C, 121.....	May 13	Oct. 11	113	21.8	99	22,773
Urbana: Champaign, EC, 163.....	April 26	Sept. 22-23	131	26.4	99	23,494
Greenfield: Macoupin, WSC, 91.....	May 12	Oct. 10	98	19.2	91	23,148
Dixon Springs: Pope, Ex. S, 90.....	May 11	Oct. 3-4	121	19.7	67	23,499



textured, Sable silty clay loam. Planting was completed April 29. Growing conditions were good throughout the test.

East North-Central Illinois: Elwood. This test was conducted at the Northeastern Illinois Agronomy Research Center in Will County. Dale Harshbarger is the field manager, and D.L. Mulvaney is in charge of research at the Center. The test was on Elliott silt loam. Planting was completed May 2. Dry conditions in both May and July contributed to yield reductions of many varieties.

West-Central Illinois: Carthage. This test was located on the Illinois Agronomy Research Center at Carthage in Hancock County. L. V. Boone was in charge of research. The soil is an Ipava silt loam. Planting was completed April 28. Lack of rainfall and high temperatures during pollination caused a reduction in yields. Considerable lodging due to corn rootworms damage was noted at harvest.

Central Illinois: Hartsburg. This test was located in Logan County on land adjoining the Hartsburg Agronomy Research Field. The test was on land operated by Lee Newby. The soil type was Hartsburg silty loam. The field was planted May 13. Adequate rainfall occurred throughout the growing season. Less than adequate weed control resulted in variable yields.

East-Central Illinois: Urbana. This test was located on the University of Illinois South Farm in Champaign County. M.G. Oldham is the farm manager. Fields on which the test plots were grown are level, heavy-textured, Drummer silty clay loam. The trials were planted April 26. Growing conditions were near normal.

West South-Central Illinois: Greenfield. This test represents the moderately poorly drained soils of western south-central Illinois. The soil is a Herrick silt loam. The plot was located between Palmyra and Greenfield in Macoupin County on land operated by Jack Ross. Planting was on May 12. Dry conditions were prevalent throughout July.

Southern Illinois: Brownstown. This test was located at the University of Illinois Brownstown Experimental Field in Fayette County. Frank Zajicek is in charge of research. The soil is Cisne silt loam: a poorly drained, gray, prairie soil with a well-developed claypan. Planting was completed May 10. Growing conditions were near normal.

Extreme Southern Illinois Upland: Carbondale. The test at Carbondale represents the upland area in southern Illinois. The test was located on a field adjoining the Southern Illinois University Agronomy Research Center. Jim Hubbard and George Kapusta were the cooperating agronomists. The soil type is a Weir silt loam, which is a shallow, silty loam over claypan. Planting was completed on May 10. The growing season had frequent periods of inadequate rainfall, and all plots were irrigated once with one inch of water.

Extreme Southern Illinois Bottomland: Dixon Springs. This test was located at the University's Dixon Springs Agricultural Center in Pope County, with George McKibben cooperating. The test plot is located on Sharon silt loam: a light-colored, moderately well-drained, medium-textured bottomland soil. The planting was made on May 11. The growing season was good; however, heavy rains during the early harvest season promoted stalk rot and resulted in severe lodging in some varieties.

Table 2. — Growing Season Rainfall

Field	April	May	June	July	August
Woodstock.....	2.30	3.89	3.50	3.57	6.68
DeKalb.....	1.78	3.81	4.79	2.05	6.86
Galesburg.....	1.82	3.28	4.74	2.50	7.47
Elwood.....	1.44	1.56	4.90	1.69	5.24
Carthage.....	1.82	5.58	2.27	2.90	8.93
Hartsburg.....	2.66	5.59	3.43	3.07	6.61
Urbana.....	.75	3.58	2.30	3.03	10.01
Greenfield.....	2.37	8.47	3.63	1.46	3.03
Brownstown.....	1.28	1.74	4.97	1.62	3.94
Carbondale.....	1.79	1.55	5.46	2.74	5.35
Dixon Springs.....	2.42	5.07	2.18	4.07	5.23

Sources of Seed

ACCO Hybrids.....	Anderson-Clayton.....	Box 9, Belmond, IA 50421
ADI Hybrids.....	ADI Distributors, Inc.....	Carmel, IN 46032
Ag Seeds Hybrids.....	Ag Seeds, Inc.....	Box 316, Carthage, IL 62321
Ainsworth Hybrids.....	Ainsworth Seed Co.....	Mason City, IL 62664
Americana Hybrids.....	Americana Seeds, Inc.....	Box 275, Bowen, IL 62316
Anderson Hybrids.....	The Anderson's.....	P.O. Box 119, Maumee, OH 43537
Asgrow Hybrids.....	Asgrow Seed Co.....	Des Moines, IA 50310
Bear Hybrids.....	Bear Hybrid Corn Co.....	Box 628, Decatur, IL 62525
Blaney Hybrids.....	Blaney Farms, Inc.....	R.R. 4, Madison, WI 53711
Bo-Jac Hybrids.....	Bo-Jac Hybrid Corn Co.....	Mount Pulaski, IL 62548
Cargill Hybrids.....	Cargill Seeds.....	Minneapolis, MN 55413
Cenex Hybrids.....	Cenex Seed Co.....	Cedar Falls, IA 50613
Coker Hybrids.....	Coker Pedigreed Seed Co.....	Box 340, Hartsville, SC 29550
Cornelius Hybrids.....	Cornelius Seed Corn Co.....	Bellevue, IA 52031
Corn King Hybrids.....	Malcolm H. Grieve.....	Pierson, IA 51048
DeKalb Hybrids.....	DeKalb AgResearch, Inc.....	DeKalb, IL 60115
Dennis Hybrids.....	Dennis Hybrid Corp.....	Windfall, IN 46076
Dockendorff Hybrids.....	Dockendorff Hybrids, Inc.....	Danville, IA 52623
FS Hybrids.....	FS Services, Inc.....	Bloomington, IL 61701
Federal Hybrids.....	Federal Hybrids.....	Marion, IA 52302
Frey Hybrids.....	Frey Hybrid Corn Co., Inc.....	Gilman, IL 60938
Funk's Hybrids.....	Funk Seeds International, Inc.....	Bloomington, IL 61701
Golden Harvest Hybrids.....	Golden Harvest Seeds, Inc.....	Clinton, IL 61727
Gutwein Hybrids.....	Fred Gutwein & Sons, Inc.....	Francesville, IN 47946
Hoblit Hybrids.....	Hoblit Seed Co.....	Atlanta, IL 61723
Hughes Hybrids.....	Hughes Hybrids, Inc.....	Woodstock, IL 60098
Hulting Hybrids.....	Ferry Morse Seed Co.....	Box 24, Geneseo, IL 61254
Kaltenberg Hybrids.....	Kaltenberg Seed Farms.....	R.R. 2, Waunakee, WI 53597
Landers Hybrids.....	Landers Seed Co.....	Box 120, Sullivan, IL 61951
Lewis Hybrids.....	Lewis Seeds, Inc.....	Box 36, Ursa, IL 62376
Lynks Hybrids.....	Lynks Hybrids.....	Box 637, Marshalltown, IA 50158
McAllister Hybrids.....	McAllister Seed Farms.....	Mount Pleasant, IA 52641
McCurdy Hybrids.....	McCurdy Seed Co.....	Fremont, IA 52561
Migro Hybrids.....	Midwest Seed Growers Assn., Inc.....	Mitchell, IN 47446
Muncy Chief Hybrids.....	Muncy Chief Hybrids.....	Muncy, PA 17756
Noble Hybrids.....	Noble Bros.....	Gibson City, IL 60936
Northrup-King Hybrids.....	Northrup, King and Co.....	Minneapolis, MN 55413
O's Gold Hybrids.....	O's Gold Seed Co., Inc.....	Parkersburg, IA 50665
P.A.G. Hybrids.....	P.A.G. Seeds.....	Minneapolis, MN 55402
Pfister Hybrids.....	Pfister Hybrid Corn Co.....	El Paso, IL 61738
Pfizer Hybrids.....	Pfizer Genetics, Inc.....	Box 33, Mason City, IL 62664
Pioneer Hybrids.....	Pioneer Hi-Bred Corn Co. of Illinois.....	Princeton, IL 61356
Pocklington Hybrids.....	Pocklington Seed Co.....	R.R. 2, Girard, IL 62640
Prairie Stream Hybrids.....	Prairie Stream Farms, Inc.....	Frankfort, IN 46041
Premier Hybrids.....	Premier Hybrids.....	Action, IN 46259
Pride Hybrids.....	Pride Co., Inc.....	Glen Haven, WI 53810
Princeton Hybrids.....	Princeton Farms.....	Box 319, Princeton, IN 47570
Renk Hybrids.....	W.F. Renk & Sons.....	R.R. 2, Sun Prairie, WI 53590
Ring Around Hybrids.....	Ring Around Products, Inc.....	Box 1629, Plainview, TX 79072
Seagull Hybrids.....	Rothermel Seed Co.....	Box 182, West Liberty, IA 52776
Seedkem Hybrids.....	Seedkem, Inc.....	Evansville, IN 47711
Stewart Hybrids.....	Stewart Hybrids, Inc.....	Princeville, IL 61559
Sturdy Grow Hybrids.....	Sturdy Grow Hybrids, Inc.....	Box 94, Arcola, IL 61910
Super-Crost Hybrids.....	Edw. J. Funk & Sons, Inc.....	Kentland, IN 47951
Taylor-Evans Hybrids.....	Taylor-Evans Seed Co.....	Box 68, Tulia, TX 79088
Todd Hybrids.....	Todd Hybrid Corn Co., Inc.....	Burlington, IN 46915
Tracy Hybrids.....	Tracy & Son Farms, Inc.....	R.R. 1, Janesville, WI 53545
Trisler Hybrids.....	Trisler Seed Farms, Inc.....	Fairmount, IL 61841
U.S.S. Hybrids.....	U.S.S. Agri-Chemicals.....	Clayton, MO 63105
Voris Hybrids.....	Voris Seeds, Inc.....	Windfall, IN 46076
Whisnand Hybrids.....	Whisnand Hybrid Corn Co.....	R.R. 1, Arcola, IL 61910
Wyffels Hybrids.....	Wyffels Hybrid Seeds.....	Atkinson, IL 61235
Zimmerman Hybrids.....	Zimmerman Hybrids, Inc.....	Evansville, IN 47712

Table 3. — Extreme Northern Illinois: Woodstock (Planted at 20,000 plants per acre in 40-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO UC 3301.....	144	121	157	23.8	19.3	19.5	99	93	98	19737	17684	17428
ADI 197.....	112			25.7			98			20139		
ADI 232.....	112			20.3			98			19564		
ADI 305.....	131			25.0			100			19874		
ADI 315.....	125			27.7			97			19375		
ASGROW RX60.....	134			22.1			99			19889		
ASGROW RX2345.....	123	94		22.4	18.5		97	73		19369	17139	
BLANEY 3606.....	126			26.1			99			19432		
BLANEY B703.....	136			26.1			99			19716		
BLANEY B705.....	117			27.5			99			19717		
BLANEY B805.....	143			27.3			98			19962		
CARGILL 838.....	117			20.8			97			19478		
CORN KING 1122.....	126	121	134	24.6	18.7	18.8	97	96	99	19814	18751	17428
DEKALB XL 18.....	113			22.0			100			18841		
DEKALB XL 25.....	108			23.0			98			19972		
DEKALB XL 43.*.....	112	113	130	25.1	20.8	19.7	99	92	100	19697	16596	18666
DEKALB XL 53.....	100			25.2			100			12596		
FS 222.....	122	121	139	24.2	19.7	19.1	98	93	98	19490	18803	19047
FS 240.....	117			23.3			99			19996		
FS 242.....	136	124	151	23.7	20.1	18.8	96	94	96	19642	17467	18285
FS 444.....	125	115		24.1	19.3		99	97		19312	16057	
FUNKS G-4141.....	110	103	131	22.0	17.3	15.8	99	91	100	19848	18415	18952
FUNKS G-4272.....	109			23.1			96			19891		
FUNKS G-4321A.*.....	147	130	107	23.9	19.5	19.3	98	94	99	19999	18306	19428
FUNKS G-4404.....	128		143	23.0		18.6	100		99	19951		19333
FUNKS G-4408.....	111	103	139	23.6	20.5	18.6	98	89	100	19906	18519	18571
FUNKS G-4430.....	123			25.9			99			19989		
FUNKS G-4449A.....	125			23.8			99			19723		
HUGHES 3304.....	119	116		20.6	18.2		98	88		19743	16345	
HUGHES 8023.....	122			24.1			99			17111		
HUGHES SLX-8.....	112	107	125	22.4	17.3	17.1	98	88	96	19782	19147	19142
HUGHES SLX-19.*.....	123	120		23.4	19.7		100	97		19729	18295	
HUGHES SLX-30A.*.....	115	116	143	27.1	21.4	18.6	98	91	99	19958	17606	19809
HULTING X322.....	122	120		23.0	20.2		98	88		19824	17643	
HULTING X770.....	119	109		24.8	18.0		99	86		20035	18623	
KALTENBERG KX 66.....	132			23.7			98			19992		
KALTENBERG KX 68.....	134	86		24.4	20.4		97	95		19916	9804	
LYNKS 4120.....	124			24.0			99			19604		
LYNKS 4220A.....	125			23.5			99			19902		
MCCURDY MSX44A.....	133	123	116	23.1	20.1	18.8	99	90	98	19713	18372	17904
MCCURDY MSX46.....	148	110		22.2	18.8		99	87		19998	18906	
MIGRO M-0301.....	116			23.8			97			19909		
MIGRO M-0501.....	132	131		27.4	22.4		98	93		19924	16343	
MIGRO M-0505.....	146	139		28.9	22.3		99	96		19957	18480	
MIGRO M-1130.....	133	132		23.8	18.3		99	94		19889	18700	
MIGRO M-2018 X.....	126			25.1			98			19728		
MIGRO M-2022 X.....	133			23.0			100			17527		
O'S GOLD SX949.....	124			21.3			99			19929		
O'S GOLD SX1111.....	119			25.2			98			19977		
P.A.G. EXP. 231070.....	131			22.6			99			20066		
P.A.G. SX 69.....	128	121	148	23.8	20.9	19.7	99	95	99	19418	17325	16380
PFISTER 19.....	125	141		23.7	20.5		96	95		19805	19016	
PFISTER 21.....	131	132	123	23.6	18.9	19.5	98	91	98	19852	19113	17333
PFISTER 21A.....	129			24.3			99			20031		
PFISTER 23.....	128			24.7			98			19999		
PFIZER T 10*0.....	119			23.7			100			19407		
PFIZER TXS 102.....	133	130		24.4	19.6		96	92		19526	18211	
PFIZER TXS 102A.....	128			24.1			99			19510		
PFIZER TXS 105A.....	127	107	133	23.0	18.6	17.3	100	70	99	19534	18073	19142
PFIZER TXS 108A.....	126	131	144	25.4	19.4	18.3	99	98	100	19542	17614	19047
PIONEER 3780.....	113	119	152	23.5	21.5	16.7	98	98	98	19749	19549	18285
PRIDE 4488.....	112			22.7			98			19657		
PRIDE 5565.....	145	101	120	22.3	19.9	17.1	98	96	99	20006	19522	17142
PRIDE 5578.....	112			23.6			100			19402		
RENK RK44.....	146	122		25.0	19.3		97	94		19494	18997	

Table 3. — Woodstock, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
RENK RK66.....	121	108		25.2	18.6		99	95		19399	16195	
RENK RK77.....	140			29.3			99			19597		
RENK RW2.....	129	122		23.0	19.8		99	93		18883	13963	
SEAGULL SX 10.....	104	118		23.0	22.1		98	98		20020	17496	
SEAGULL SX 20AA.....	124	122		26.4	19.8		99	98		19986	17827	
SEAGULL SX 33.....	124	140	155	26.4	19.7	19.4	100	92	97	19730	18993	19428
SEED-KEM SKX36.....	117			23.1			99			19533		
SUPER-CROST 2350.....	127	129		21.8	18.6		100	98		19946	17991	
SUPER-CROST 2470.....	125	113	136	23.1	20.2	18.3	99	99	99	19560	17813	17904
SUPER-CROST 2890.....	120	118	130	25.7	21.1	18.7	99	93	100	19539	16708	18190
SUPER-CROST S27.....	127	133	138	22.8	19.6	17.8	98	91	95	19929	17418	16476
TAYLOR-EVANS MARKETMAKER.....	111	124	149	24.5	19.7	19.0	99	97	98	18271	18296	17047
TRACY T207.....	122			23.8			98			18801		
TRACY T209I.....	125			24.2			99			19320		
TRACY T210.....	111			27.4			98			19204		
TRACY T214.....	134			27.0			99			19715		
TRACY T316.....	120			27.6			100			19878		
U.S.S. 0010.....	109			23.4			98			19898		
U.S.S. 0011.....	129	129		23.9	19.4		95	91		19550	17416	
U.S.S. 0555A.....	132	123		26.7	20.9		97	97		19799	15753	
WYFFELS W-18.....	129			20.5			98			20079		
WYFFELS W-26.....	122	99	128	25.2	22.6	18.0	99	99	99	19685	16807	18761
AVERAGE OF 1977 ENTRIES.....	123			24.4			99			19566		
L.S.D. 10% LEVEL.....	18			2.0			2			744		
L.S.D. 30% LEVEL.....	12			1.3			1			468		
C.V.....	11			6.1			1			3		

Table 4. — Northern Illinois: DeKalb (Planted at 20,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO UC 7951.....	113			20.3			80			19777		
AG SEEDS AXS 104.....	156			18.8			80			19555		
AG SEEDS AXS 109.....	155			19.1			87			19888		
AG SEEDS AXS 114.....	109			21.0			85			19222		
BLANEY B606.....	127	107		18.3	22.8		93	97		19000	19569	
BLANEY B703.....	101			20.2			79			19888		
BLANEY B705.....	151			20.6			89			19888		
BLANEY 8805.....	156	131		21.1	25.8		83	100		20000	19677	
CARGILL 838.....	114			19.5			78			19222		
CORN KING 1235.....	141			19.5			87			19666		
PS 222.....	142	121	171	20.0	22.9	15.6	81	92	97	20000	19462	19995
PS 240.....	107			19.7			81			19888		
PS 444.....	121	119	156	20.2	24.2	15.9	87	99	100	19777	19784	19288
PS 452.....	121	117		21.1	24.2		75	98		19777	19569	
PS 466.....	129	121		19.9	26.4		67	97		20000	19784	
PUNKS G-4141.....	126			16.4			87			19333		
PUNKS G-4321A.....	158	95	188	19.6	23.4	15.7	80	95	98	19777	18494	19658
PUNKS G-4404.....	130	110	169	18.9	21.7	15.4	60	96	98	20000	19354	19932
PUNKS G-4408.....	122	85	171	19.9	25.2	16.9	82	95	96	19888	19784	20039
PUNKS G-4430.....	92			19.4			72			19333		
PUNKS G-4444A.....	120			19.9			84			19666		
PUNKS G-4507.....	99	105	164	22.1	27.3	16.9	89	97	100	19777	19569	19987
PUNKS G-4520.....	136	105		22.1	29.0		83	96		18777	19784	
HUGHES SLX-39.....	158	128		21.6	28.1		80	99		19888	20000	
HUGHES SLX-225.....	122	112	169	19.6	22.1	15.8	88	99	99	19888	19354	19946
HULTING X322.....	117	124		19.2	24.2		80	96		20000	19247	
HULTING X770.....	137	110		18.8	23.1		86	85		20000	19784	
KALTENBERG KX 58.....	138			19.5			64			20000		
KALTENBERG KX 68.....	120	97		18.3	25.9		74	100		20000	14408	
KALTENBERG KX 76.....	153	108		21.9	27.9		81	99		20000	19892	
LYNKS 4220.....	131			18.9			79			19555		
MCALLISTER SX7300.....	114	146	193	21.2	27.8	18.2	81	99	100	19444	19032	19990
MCALLISTER SX7402.....	116		161	19.8		15.3	75		100	19777		17137
MCCURDY MSX46.....	136	124		19.6	24.4		88	97		20000	19569	
MCCURDY MSX60.....	138	120		21.3	26.2		81	99		20000	17634	
MIGRO M-0301.....	153			19.3			67			20000		
MIGRO M-0501.....	110	113		20.5	27.5		79	99		19888	18602	
MIGRO M-0505.....	133	102		21.9	27.4		91	97		19777	19462	
MIGRO M-2018 X.....	154			19.3			77			20000		
MIGRO M-2022 X.....	136			19.5			78			20000		
MUNCY-CHIEF H764.....	143			22.1			69			19555		
MUNCY-CHIEF SX662.....	128			21.3			78			20000		
MUNCY-CHIEF SX777.....	108			20.3			80			19333		
MUNCY CHIEF SX8083.....	129			24.0			73			17666		
MUNCY-CHIEF SX878.....	111			23.5			77			19111		
NOBLE N3 235 M.....	110			21.6			84			19888		
O'S GOLD SX1111.....	146			19.4			77			19333		
O'S GOLD SX5500A.....	118	116	189	21.1	28.2	19.2	69	99	100	19333	19784	19470
P.A.G. SX 424.....	114	118		20.9	26.3		87	99		19111	18602	
PFISTER 21.....	116	125		19.3	23.7		85	94		20000	19354	
PFISTER 21A.....	121	112		20.0	20.4		78	93		20000	18602	
PFISTER 23.....	139	134		19.8	23.7		83	92		19777	18279	
PFISTER 70.....	114			22.9			70			19777		
PFIZER T 1010.....	146			19.6			79			20000		
PFIZER TXS 102A.....	138			18.9			80			19666		
RENK RK44.....	154	109		19.6	22.4		78	92		19777	19354	
RENK RK66.....	113	95		19.6	23.4		92	100		19333	17956	
RENK RK77.....	124	115		21.3	24.5		66	100		19111	17849	
RENK RW2.....	135	107		18.0	22.1		75	77		19333	19677	
SEAGULL SX 10.....	115	118		18.9	22.3		78	92		20000	19569	
SEAGULL SX 20AA.....	135	114		18.6	24.9		83	95		19888	19354	
SEAGULL SX 25.....	113	125		20.5	26.3		80	93		20000	19354	
SEAGULL SX 33.....	137	116	162	20.8	24.5	16.9	73	92	99	19888	18924	19573
SEAGULL SX 40.....	127	105	171	21.1	26.6	19.1	82	97	100	19666	18279	20035
SUPER-CROST 2350.....	130	108		18.1	21.3		86	94		19888	19247	
SUPER-CROST 2470.....	116	112	161	19.3	25.5	14.9	88	98	98	19888	19677	19064
SUPER-CROST 4242.....	149	121	165	21.1	23.7	15.3	88	85	99	19777	19784	19608
SUPER-CROST 4350.....	109			21.7			65			19777		
SUPER-CROST 5440.....	125	91	171	22.2	25.5	17.9	84	97	100	20000	18817	19742
SUPER-CROST 527.....	127	110	164	19.3	23.9	15.4	73	95	98	20000	19354	19984
TRACY T209I.....	122			18.6			85			18444		
TRACY T210.....	114			19.9			87			20000		
TRACY T214.....	162			22.0			81			18666		
TRACY T316.....	116			20.8			77			20000		
U.S.S. 0010.....	137			19.8			84			20000		
U.S.S. 0011.....	129			19.7			57			18888		
U.S.S. 1010.....	97			21.3			78			19777		
VORIS V 2472.....	147			19.0			83			19888		
WYPFELS W-18.....	108			18.0			83			19666		
WYPFELS W-26.....	132	126		19.6	24.0		90	98		19888	19247	
WYPFELS W-30.....	137			19.2			76			19555		
AVERAGE OF 1977 ENTRIES.....	129			20.2			80			19679		
L.S.D. 10% LEVEL.....	32			1.2			..			758		
L.S.D. 30% LEVEL.....	20			0.8			..			477		
C.V.....	18			4.5			16			3		

Table 4a. — Northern Illinois: DeKalb, Increased Planting Rate
(Planted at 24,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO UC 3301.....	144	120	166	19.8	21.7	16.8	98	82	93	22971	23214	20694
ACCO UC 5601.....	161	123		20.7	24.3		90	82		24000	23222	
ACCO UC 7951.....	164			21.4			95			23542		
ADI 315.....	141			22.3			98			23314		
ADI 395.....	137			22.6			97			23085		
ADI 555.....	185			22.3			100			21942		
ADI 626.....	161			22.7			98			22857		
AMERICANA 2500.....	163	90	173	19.7	22.1	16.9	93	83	88	22971	23333	23126
AMERICANA D-302.....	167			20.6			95			23542		
AMERICANA D-303.....	145			20.1			92			24030		
AMERICANA D-323.....	153			19.8			94			23542		
ASGROW RX60.....	182		167	19.6		16.8	99		97	21485		22890
ASGROW RX2345.....	144	138		19.2	19.5		99	89		22514	23639	
BLANEY B506.....	146	110		20.2	27.4		95	94		22971	23343	
BLANEY B703.....	154			21.0			97			21257		
BLANEY B705.....	172			21.9			100			24000		
BLANEY B305.....	163	140		21.7	27.1		95	94		22971	23694	
BO-JAC X36.....	161	115		22.5	21.0		95	75		21828	22979	
BO-JAC X37.....	153		133	21.8		16.9	98		93	23200		21986
BO-JAC X52A.....	198	116	193	23.2	25.9	19.1	94	91	84	24000	23194	22316
BO-JAC X145.....	150			19.4			99			23428		
BO-JAC X172.....	169			20.1			93			23542		
BO-JAC X193.....	154			22.3			91			24000		
BO-JAC X268.....	130			19.9			97			21257		
BO-JAC X288.....	157			19.9			93			24030		
BO-JAC X347.....	169			23.5			97			22742		
CARGILL 838.....	143			18.5			92			24070		
CARGILL 890.....	134	135	156	19.9	22.4	17.7	96	86	99	24000	23091	22899
CENEX 2201.....	136			19.7			97			22857		
CENEX 2333.....	158			17.4			83			23314		
CORNELIUS C47SX.....	169			20.2			97			23835		
CORNELIUS SC 38.....	164			19.8			97			22285		
DEKALB XL 14.....	154			20.3			97			23835		
DEKALB XL 25.....	118			19.6			98			23200		
DEKALB XL 41.....	164	129	166	21.6	21.3	18.9	99	71	99	23657	22598	22184
DEKALB XL 53.....	153			21.5			97			14400		
DEKALB XL 54.....	156	136		20.8	23.0		91	75		22857	23556	
DEKALB XL 64.....	151	108	160	22.4	22.7	19.1	97	72	97	23657	22164	23111
DENNIS DS11.....	173			19.8			97			23885		
DENNIS DS90.....	136			18.8			98			23428		
FS 240.....	129			19.7			97			23314		
FS 242.....	164	124	132	20.1	19.2	18.8	85	87	95	23314	23006	21528
FS 444.....	157	123	171	19.8	20.3	17.9	97	97	96	23035	23759	21114
FS 466.....	153	145		21.0	22.7		90	82		23771	22510	
FEDERAL FT23.....	100	120		21.2	27.5		95	91		22742	24122	
FEDERAL FT 27 A.....	147			20.4			87			22971		
FEDERAL FX 6.....	175	115	186	20.2	21.5	16.0	97	95	99	24000	23706	24025
FUNKS G-4141.....	130			18.0			99			24000		
FUNKS G-4321A.....	153	132	183	20.3	23.1	16.1	99	90	90	22285	23840	23422
FUNKS G-4404.....	163	137	162	20.0	19.9	15.3	84	96	97	23200	23692	22182
FUNKS G-4403.....	127	129	174	19.8	21.8	16.5	100	98	93	23428	23515	23226
FUNKS G-4430.....	150			21.5			98			23885		
FUNKS G-4444A.....	153			19.7			96			23428		
FUNKS G-4507.....	126	143	176	24.7	22.8	19.4	98	95	97	22857	22760	22692
FUNKS G-4520.....	187	145		22.3	24.3		97	90		23428	23318	
GUTWEIN 44.....	137			21.5			97			24000		
GUTWEIN 46.....	133	139	180	21.0	20.5	19.7	98	97	97	23314	23723	22503
HUGHES 15 4 7.....	153			21.0			93			23428		
HUGHES 8023.....	160			19.9			96			22742		
HUGHES SLX-19.....	142			19.0			99			23885		
HUGHES SLX-304.....	161	115	138	19.3	22.1	16.3	96	100	94	22285	22663	23178
HUGHES SLX-39.....	135	127	205	21.5	26.1	19.7	90	97	98	22971	23766	22630
HULTING X770.....	162	126		20.1	21.7		89	80		23428	23053	
KALTENBERG KX 58.....	144			21.5			98			24000		
KALTENBERG KX 64.....	145			19.7			96			22628		
KALTENBERG KX 76.....	140			22.2			93			23542		
LEWIS 235B.....	119			20.9			90			23200		
LEWIS X148.....	171			21.7			99			22857		
LEWIS X17B.....	131			21.3			97			23542		
LEWIS X19B.....	128	137		19.0	23.7		88	97		22628	22779	
LEWIS X25B.....	170			22.0			100			23428		
LYNKS 4200.....	147			20.7			100			21942		
MCALLISTER SX7300.....	166		154	22.5		20.3	99		97	23885		22949
MCALLISTER SX7406.....	198			23.2			97			23657		
MCALLISTER SX7607.....	170			21.4			94			22857		

Table 4a. — DeKalb, Increased Planting Rate, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
MCCALLISTER SX7705.....	160			20.6			98			24000		
MCCURDY MSX42.....	148			19.6			90			23771		
MCCURDY MSX46.....	147	141	159	20.6	21.4	16.3	96	96	98	23542	22231	21307
MCCURDY MSX50.....	136			19.5			93			22857		
MIGRO M-0301.....	155	95		20.3	24.5		98	85		24000	23822	
MIGRO M-0505.....	148	129		22.4	25.3		97	99		22514	23754	
MIGRO M-2013 X.....	149			20.1			94			24000		
MIGRO M-2022 X.....	167			19.4			100			23200		
NOBLE N3 2451.....	144			20.9			96			23428		
NOBLE N3 2551.....	162			23.2			98			24000		
NORTHRUP-KING PK46.....	138		187	20.1		15.4	94		99	23200		22928
NORTHRUP-KING PK48.....	143			20.1			94			23885		
NORTHRUP-KING PK65.....	142			20.6			95			23314		
NORTHRUP-KING PK74.....	150		194	21.6		19.5	96		96	23542		22724
NORTHRUP-KING PK585.....	138			18.8			98			24000		
O'S GOLD SX949.....	123			18.5			96			22857		
O'S GOLD SX1111.....	165			21.1			98			23200		
P.A.G. SX 397.....	130	114	136	21.4	25.3	17.5	98	82	98	23200	23536	23578
P.A.G. SX 424.....	130	136	187	22.0	23.6	18.1	99	81	98	22400	23674	22795
PFIZER T 1120.....	146			24.3			98			24000		
PFIZER TXS 105A.....	144	71	122	18.8	20.3	15.6	99	79	91	24000	23203	22971
PFIZER TXS 108A.....	139	71	154	21.1	25.0	17.5	100	97	92	23771	23823	22169
PFIZER TXS 115A.....	174	128	160	22.0	24.0	12.2	96	92	97	21028	23106	22342
PIONEER 3780.....	139	128	154	18.9	22.3	16.0	98	92	100	22971	22705	22575
POCKLINGTON P223.....	144			24.3			98			23771		
POCKLINGTON P-6302.....	145			21.9			99			23771		
PRIDE 5578.....	156			19.5			97			22400		
PRIDE 6678.....	167			22.2			100			22171		
PRIDE 7715.....	140			21.6			96			24000		
PRIDE E-603.....	150	132		20.5	20.1		98	97		23428	22729	
RENK RK44.....	120	125		19.5	23.7		90	89		23885	23764	
RENK RK65.....	146	120		19.4	21.0		97	91		22971	22543	
RENK RK77.....	168	136		23.2	25.4		97	99		23314	22510	
SEAGULL SX 10.....	115	99		20.7	20.6		91	85		22857	22774	
SEAGULL SX 11A.....	158	125	166	19.2	21.1	17.4	94	93	95	24000	23481	22435
SEAGULL SX 25.....	146	125		20.5	23.5		90	95		23657	22916	
SEAGULL SX 33.....	170	129	175	20.9	24.5	18.3	94	80	96	22971	23342	22448
SEAGULL SX 40.....	155	134	159	20.8	27.3	20.5	97	97	99	23085	22721	20172
SEAGULL SX 55.....	135			23.2			98			23314		
STEWART S349.....	161			22.8			98			23428		
STEWART SX54.....	153			23.9			91			21942		
STEWART SX1734.....	136	134	163	20.2	20.3	17.3	90	96	98	22171	23604	22978
STEWART SX6634.....	129	113		20.4	21.2		96	79		22742	22618	
SUPER-CROST 2350.....	167	106		20.0	21.8		96	94		24000	22532	
SUPER-CROST 2470.....	143	97	138	20.4	18.7	16.7	90	95	99	22971	23280	22052
SUPER-CROST 2890.....	114	148	177	21.0	22.0	16.8	98	93	99	21371	22305	20149
SUPER-CROST 4242.....	143	139	161	21.2	24.9	18.4	94	90	98	23885	23219	21630
SUPER-CROST 4350.....	127			23.2			98			23428		
SUPER-CROST 5440.....	141	117	181	21.1	24.3	19.9	93	82	96	23657	22708	23957
TAYLOR-EVANS T.E. 6963.....	156	123	193	23.0	25.5	20.1	95	96	95	23428	23666	23995
TAYLOR-EVANS T.E. 6992.....	137	123	149	21.0	27.5	19.0	97	94	94	23035	22648	20654
TAYLOR-EVANS T.E. 6995.....	175	128		23.1	29.1		98	99		24000	23230	
TRACY T2091.....	145			19.1			97			23885		
TRACY T210.....	159			20.0			96			22742		
TRACY T214.....	183			23.1			100			21600		
TRACY T316.....	171		205	22.5		19.4	95		97	23542		21817
U.S.S. 0010.....	152	132		21.8	21.1		95	88		23200	23459	
U.S.S. 0555A.....	167			20.4			93			23428		
U.S.S. 1010.....	135	148		22.3	30.4		98	97		21371	21589	
VORIS V 2472.....	160			20.3			95			23428		
VORIS V 2532.....	151	140	198	21.2	24.9	20.0	92	99	99	23885	23097	23780
VORIS V 2542.....	174	128	205	22.1	26.7	19.3	95	96	96	24000	23135	22822
AVERAGE OF 1977 ENTRIES.....	152			20.9			96			23166		
L.S.D. 10% LEVEL.....	32			1.7			..			1544		
L.S.D. 30% LEVEL.....	20			1.1			..			973		
C.V.....	15			6.0			6			5		

Table 5. — East North-Central Illinois: Elwood (Planted at 24,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
AG SEEDS AXS 104.....	123			19.1			99			23428		
AG SEEDS AXS 109.....	127			19.9			96			17828		
AG SEEDS AXS 114.....	92			19.5			96			23085		
AINSWORTH X-512.....	126			20.6			98			23885		
AINSWORTH X-516.....	107			19.7			96			22628		
AINSWORTH X-603.....	119			19.7			94			20800		
AINSWORTH X-605.....	105			19.9			99			23428		
ANDERSON AX-9.....	106	109		21.0	21.4		98	96		21600	22742	
ANDERSON SSE.....	149	108		19.1	20.0		99	96		22857	23771	
ANDERSON SSM.....	113			19.4			99			19657		
ANDERSON SSX.....	125	110		18.5	23.7		99	88		21714	21714	
BO-JAC X36.....	104			20.1			100			23085		
BO-JAC X37.....	117			18.8			98			22514		
BO-JAC X145.....	118			18.8			98			21485		
BO-JAC X172.....	100			19.7			100			22628		
BO-JAC X193.....	115			20.3			100			24000		
BO-JAC X268.....	106			19.6			99			19885		
BO-JAC X288.....	140			19.7			95			21028		
BO-JAC X347.....	125			20.8			99			23428		
BO-JAC X616.....	105			20.5			98			23314		
BO-JAC X847.....	77			20.4			98			23542		
CARGILL 890.....	98			19.9			99			24000		
CARGILL 920.....	124	123	154	19.3	21.5	17.8	99	95	99	23428	23200	21896
DEKALB XL 43A.....	114	125		18.8	21.7		100	94		23542	23657	
DEKALB XL 54.....	124			20.0			97			22057		
DEKALB XL 64.....	125	119	149	21.3	21.4	19.2	98	86	98	23771	24000	23885
DEKALB XL 64A.....	141	117		20.4	19.9		99	90		23657	23771	
DENNIS DS6.....	127			20.1			98			17600		
DENNIS DS11.....	112			19.0			100			21828		
DENNIS DS37B.....	110	112	171	21.4	20.4	21.8	96	90	98	21257	23885	21283
DENNIS DS48.....	99			21.0			100			22057		
FS 240.....	119			19.3			98			21257		
FS 242.....	131	110	176	19.5	22.3	18.5	100	93	98	22857	23542	20718
FS 444.....	105	102		19.9	19.4		98	96		20685	23314	
FS 452.....	101	124		19.1	20.0		98	84		20800	24000	
FS 466.....	114	136		20.2	20.8		100	87		21600	23885	
FUNKS G-4141.....	114			18.0			98			20228		
FUNKS G-4321A.....	139	90	143	18.4	24.5	17.8	99	90	97	19085	23200	20700
FUNKS G-4403.....	114	126	162	20.0	23.2	15.7	98	91	99	22400	24000	22528
FUNKS G-4430.....	104			18.9			96			22171		
FUNKS G-4449.....	92	111	157	19.6	20.6	19.1	99	89	99	22628	22742	20685
FUNKS G-4507.....	122	112	163	20.3	22.8	19.9	95	97	99	22057	23542	22926
FUNKS G-4520.....	139	94		20.0	22.0		100	95		22400	23085	
GUTWEIN 64.....	126			21.7			99			22400		
HUGHES 8023.....	110			18.7			98			20571		
HUGHES SLX-19.....	123			19.3			97			21257		
HUGHES SLX-30A.....	120	123	125	18.4	23.3	18.0	97	91	98	21257	23428	19199
HULTING X770.....	117	133	142	19.5	20.3	13.9	100	94	96	22857	23542	21844
LYNKS 4220.....	105			19.7			100			22971		
LYNKS 4305.....	106			21.0			96			23314		
MCALLISTER SX7207.....	114	137	172	21.9	20.0	18.5	99	98	95	22400	23657	19518
MCALLISTER SX7300.....	109			20.6			100			23657		
MCALLISTER SX7402.....	118			18.7			98			22628		
MCALLISTER SX7406.....	138	115	186	21.9	24.5	19.7	98	98	98	22514	23314	18740
MCALLISTER TX6504.....	95	138		20.7	19.9		98	87		23542	23200	
MCCURDY MSX44A.....	108	129		20.7	20.1		91	97		20342	22742	
MCCURDY MSX46.....	105	126		18.5	22.0		98	86		21942	23200	
MCCURDY MSX50.....	108			18.1			99			21485		
MCCURDY MSX64.....	111	132	182	21.2	21.4	19.3	99	95	98	23200	23085	20989
MIGRO M-0301.....	101	115		18.6	19.8		99	91		20114	23885	

Table 5. — Elwood, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
MIGRO M-0505.....	110	141		19.6	17.5		98	98		23885	24000	
MIGRO M-2018 X.....	130			19.0			97			20342		
MIGRO M-2022 X.....	146			19.9			99			23542		
NORTHROP-KING PX65.....	89		144	19.5		18.2	98		95	20800		20475
NORTHROP-KING PX74.....	89		121	19.3		18.2	99		93	22742		18405
NORTHROP-KING PX79.....	90			19.7			99			21371		
NORTHROP-KING PX85.*.....	90			19.3			96			18971		
NORTHROP-KING PX675.....	91		123	20.4		20.2	98		96	23200		21776
O'S GOLD SX5500A.....	114	113	154	21.0	21.5	18.5	98	91	97	22628	23428	21341
O'S GOLD SX5500B.....	110			21.5			99			23657		
P.A.G. SX 397.....	117	131		18.3	23.4		98	97		23314	24000	
PFISTER 55.....	137			20.9			99			23835		
PFISTER 63.....	123			20.1			100			21028		
PFISTER 70.....	112			20.7			96			22285		
PFISTER 75.....	126			20.2			95			22057		
PFIZER T 1120.....	111			20.4			99			23035		
PFIZER TXS 105A.....	107	111	142	18.3	21.4	17.3	99	95	95	23200	23314	21218
PFIZER TXS 108A.....	102	118	134	19.1	22.3	16.9	100	94	97	20914	23314	22278
PFIZER TXS 115A.....	83	122	149	21.9	21.8	20.7	98	100	98	22742	23428	20916
PIONEER 3517.*.....	109		141	19.7		19.2	100		98	23657		20409
PIONEER 3730.*.....	113	111	166	18.2	18.8	17.5	100	91	97	23542	23314	21523
PRIDE 6678.....	127			20.2			98			16000		
PRIDE 7715.....	132	107	167	19.6	21.8	17.6	98	90	96	23200	23771	17256
PRIDE 8024.....	126	129	144	21.0	21.8	18.0	99	98	95	23542	23314	23223
PRIDE R-303.....	101	131	122	19.9	19.9	19.0	100	95	97	22514	23542	21905
SEED-KEY SKX38.....	104			19.3			100			18742		
SEED-KEY SKX56.....	99			20.1			99			21942		
SEED-KEY SKX76.....	135			20.1			98			23885		
STEWART S349.....	110			21.0			99			23085		
STEWART SX6834.....	105			19.5			100			18742		
SUPER-CROST 2350.....	105			19.1			97			20342		
SUPER-CROST 2890.....	99	104	162	18.3	22.3	16.6	99	91	98	22171	21942	23067
SUPER-CROST 2890A.....	116	121		19.5	23.9		100	99		23200	23314	
SUPER-CROST 4242.....	124	112	127	20.3	22.9	18.7	99	97	98	23200	23771	22537
SUPER-CROST 4350.....	85	118		19.4	22.6		100	98		23314	23771	
SUPER-CROST 5440.....	102	130	167	19.7	23.2	18.9	99	92	97	22628	23428	17838
TAYLOR-EVANS T.E. 6963.....	132	104	166	20.3	22.3	19.6	98	98	95	19771	23885	21461
TAYLOR-EVANS T.E. 6980.....	122	109	154	21.0	21.5	22.8	100	94	95	21142	23885	20937
TAYLOR-EVANS T.E. 6992.....	113	111	122	21.0	22.1	19.0	99	92	96	22400	23200	21219
TAYLOR-EVANS T.E. 6995.....	125	113		20.1	22.7		98	100		19428	22742	
TRACY T207.....	97			18.3			99			22057		
TRACY T209I.....	130			19.0			97			21600		
TRACY T210.....	92			18.3			97			19885		
TRACY T214.....	109			20.8			100			16457		
TRACY T316.....	119			21.3			98			20228		
VORIS V 2422.....	110		143	20.2		18.7	99		96	22171		23273
VORIS V 2532.....	117	129	146	20.0	20.0	18.8	97	85	97	22514	23428	21342
VORIS V 2592.....	101			20.5			99			23200		
WYPFELS W-26.....	128			18.9			99			21600		
WYPFELS W-60.....	113			19.8			99			22514		
AVERAGE OF 1977 ENTRIES.....	114			19.9			99			21964		
L.S.D. 10% LEVEL.....	24			1.3			3			2411		
L.S.D. 30% LEVEL.....	15			0.8			2			1519		
C.V.....	16			4.7			2			8		

Table 6. — West North-Central Illinois: Galesburg (Planted at 20,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO U 390.....	151	184		19.7	27.4		96	93		19991	19888	
ACCO UC 8951.....	138	179	190	20.6	25.7	24.0	98	97	98	19987	20110	19270
AG SEEDS AX 118.....	129			20.6			97			18670		
AG SEEDS AXS 119.....	145			21.5			99			19992		
AINSWORTH X-516.....	153	209		20.4	23.6		97	94		20014	19995	
AINSWORTH X-620.....	130			21.0			97			19991		
AMERICANA 3200.....	141		152	19.4		20.2	97		98	19984		19270
AMERICANA 3500A.....	165		161	19.6		20.0	95		95	19874		20000
AMERICANA 4700.....	125			20.0			98			20014		
AMERICANA 6700.....	144		157	21.2		24.4	93		97	20002		19479
ASGROW RX2345.....	140			17.8			95			19736		
ASGROW RX2722.....	127	178		19.9	22.3		97	95		20002	19782	
BO-JAC X7LB.....	136			21.2			97			20011		
BO-JAC X52A.....	143	189		20.2	21.0		92	89		19908	19891	
BO-JAC X52B.....	138			19.4			95			19662		
BO-JAC X56.....	166	179	184	19.5	23.1	22.6	95	96	100	19771	20002	19687
BO-JAC X56B.....	132			20.2			92			19890		
BO-JAC X69.....	107	170	175	20.0	23.1	21.9	96	93	98	19670	19666	19791
BO-JAC X690.....	166			20.1			98			19990		
CORN KING 1357.....	114			19.5			95			19991		
DOCKENDORFF 7900.....	161			18.8			98			19757		
FS 240.....	135			17.4			96			19978		
FS 444.....	135	158	163	18.4	26.3	19.9	97	92	98	19016	19774	19791
FS 642.....	147	172		19.4	23.9		99	97		19667	20000	
FS 680.....	145	174	168	19.7	22.0	20.3	96	98	97	19556	19448	19687
FUNKS G-4321A.....	127	147	165	18.1	22.6	17.8	96	87	95	20010	19995	19791
FUNKS G-4430.....	146			18.2			96			19672		
FUNKS G-4449.....	145	135	164	20.0	24.2	18.0	93	98	97	20008	19999	19791
FUNKS G-4507.....	141	185	173	20.0	22.4	21.1	100	93	97	20000	19782	20000
FUNKS G-4520.....	159	184		19.7	23.1		97	91		20030	19998	
FUNKS G-4574.....	150			19.6			97			18939		
FUNKS G-4628.....	145			22.2			96			18576		
FUNKS G-4737.....	176	179	173	21.9	26.7	22.0	100	95	97	19541	20004	20000
HOBLETT XR441.....	121			20.0			91			19424		
HULTING X770.....	155	146	160	17.8	21.7	19.6	96	95	97	19993	19996	20000
HULTING X880.....	154	183	197	19.6	23.5	20.5	95	99	97	19995	20005	18645
LEWIS X24B.....	154	179	196	19.4	24.8	19.0	98	97	98	19895	19998	20000
LEWIS X33B.....	154	182		19.9	21.3		96	99		19536	20003	
LEWIS X62B.....	148	191	194	19.6	25.0	21.3	95	95	96	19774	19667	19687
LYNKS 4330.....	157			19.6			98			19776		
LYNKS 4510.....	138			20.3			95			19897		
MCALLISTER SX7300.....	142	175	188	20.2	25.2	22.4	97	96	100	20001	19383	19583
MCALLISTER SX7300B.....	173			21.8			96			19591		
MCALLISTER SX7402.....	161		160	17.7		18.1	96		99	19985		19375
MCALLISTER SX7406.....	144	183	180	20.1	23.3	19.7	94	90	97	18904	19551	19895
MCALLISTER SX7617.....	169			20.4			97			19730		
MCALLISTER TX7518.....	129	180		21.4	25.5		98	96		19993	19114	
ACCURDY MSX65.....	135	162		19.9	25.0		96	97		20023	18781	
MCCURDY MSX70.....	136	179		20.1	24.5		98	95		19997	19389	
MCCURDY MSX84.....	184	170	173	19.3	23.3	22.7	93	94	97	20013	19659	18541
O'S GOLD SX3400.....	183	180		20.2	23.4		94	97		19976	20302	
O'S GOLD SX5500A.....	155	167	171	19.9	23.3	21.2	94	96	98	20010	19387	19479
PFISTER 65.....	146	190		19.8	20.7		96	94		20000	19666	
PFISTER 68.....	166	164		20.5	23.7		96	97		19660	20000	
PFISTER 70.....	148	168		20.4	22.3		97	92		19794	19777	
PFISTER 75.....	157	170		19.4	24.3		92	97		19563	19996	
SEAGULL SX 10.....	115			17.2			97			19932		
SEAGULL SX 20AA.....	126			18.2			93			18904		
SEAGULL SX 25.....	143			19.9			96			19990		
SEAGULL SX 40.....	157	162	152	19.9	23.7	20.1	97	97	98	19779	20001	18125
SEAGULL SX 55.....	163	173	162	20.4	23.6	20.3	93	93	97	19440	19998	19895
SUPER-CROST 2890A.....	125			18.2			99			19540		
SUPER-CROST 4350.....	137	168		18.6	20.5		98	93		19983	19998	
SUPER-CROST 5440.....	125	168	165	18.9	23.6	20.5	95	88	96	20017	19667	18541
TRACY T209I.....	128			17.9			95			19330		
TRACY T210.....	135			18.5			97			19891		
TRACY T214.....	130			20.4			96			18786		
TRACY T316.....	128			20.1			94			19332		
U.S.S. 0555A.....	147			19.0			96			19990		
U.S.S. 1010.....	132			19.7			93			19110		
WYFFELS W-50.....	151	163		18.9	22.7		94	95		19896	19451	
WYFFELS W-60.....	154	198		20.1	22.8		96	94		19855	19776	
AVERAGE OF 1977 ENTRIES.....	145			19.3			96			19742		
L.S.D. 10% LEVEL.....	29			1.0			..			..
L.S.D. 30% LEVEL.....	18			0.6			..			..
C.V.....	15			3.6			3			3		

Table 6a. — West North-Central Illinois: Galesburg, Increased Planting Rate
(Planted at 24,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO U 385.....	127	186		20.4	23.2		98	94		22857	23657	
ACCO UC 9351.....	154	187	189	21.2	25.1	19.7	99	88	98	23771	21942	22631
ADI 555.....	157			19.8			95			23428		
ADI 575.....	142			19.4			95			23542		
ADI 626.....	160			20.5			98			23035		
ADI 647.....	153			21.3			98			24000		
AG SEEDS AXS 104.....	136			17.5			95			23542		
AG SEEDS AXS 109.....	153			18.0			92			24000		
AG SEEDS AXS 114.....	159			19.2			97			23542		
AG SEEDS AXS 115.....	152			19.7			92			22514		
AINSWORTH X-615.....	146			19.6			95			23200		
AINSWORTH X-617.....	181			20.9			99			24000		
BO-JAC X7L.....	145	174	187	21.0	25.0	24.6	96	91	99	24000	23771	23368
BO-JAC X52A.....	145	226	203	20.5	23.7	22.6	91	92	97	24000	22628	23684
BO-JAC X52B.....	144	196	191	20.3	24.3	20.8	91	81	97	24000	24000	23368
BO-JAC X56.....	140	173	169	19.7	23.3	21.5	97	87	98	23771	23771	23684
BO-JAC X56B.....	157			19.9			95			23657		
BO-JAC X193.....	135			19.7			95			23542		
BO-JAC X347.....	157			19.9			93			22400		
BO-JAC X847.....	112			18.5			98			23314		
CARGILL 920.....	166	186	160	20.1	20.3	19.1	95	91	99	23771	22857	23684
CARGILL 949.....	176	175	192	19.4	23.4	20.7	94	96	98	24000	23771	23368
CARGILL 966.....	157			22.5			97			23200		
CORNELIUS C775X.....	83	191	188	19.7	22.7	19.5	88	95	100	23428	23542	21263
DEKALB XL 43A*.....	143	140		18.8	22.3		98	94		24000	23428	
DEKALB XL 53.....	144			18.5			98			17257		
DEKALB XL 54*.....	141	158		19.5	21.9		97	79		22400	22857	
DEKALB XL 64*.....	127	153	174	20.4	23.6	19.7	97	90	99	23771	24000	23473
DEKALB XL 65B.....	129			19.5			98			23657		
DEKALB XL 72AA.....	141			19.3			93			22857		
DOCKENDORFF 7100.....	141			18.2			97			23314		
DOCKENDORFF 7700.....	173			20.1			97			23657		
DOCKENDORFF 8000.....	148			21.2			92			22628		
DOCKENDORFF D77.....	163	183	176	19.3	23.5	22.0	94	95	99	23085	23542	24000
PS 240.....	119			17.9			93			23200		
PS 444.....	130		131	17.6		17.7	96		98	23542		22736
PS 642.....	160	185		19.6	22.3		95	99		24000	22514	
PS 680.....	158	165	159	20.0	24.2	21.1	98	98	98	22057	23314	21157
FEDERAL FX 39.....	142			20.1			93			21714		
FUNKS G-4321A.....	123	141	179	18.1	21.9	17.7	93	95	98	24000	23771	23578
FUNKS G-4430.....	119			18.1			92			23542		
FUNKS G-4449.....	148	151	187	20.7	24.4	20.7	97	92	99	24000	23200	23684
FUNKS G-4507*.....	119	173	176	19.7	23.8	19.4	96	98	98	23428	22857	23052
FUNKS G-4520.....	152	175		20.0	24.0		95	94		23314	23657	
FUNKS G-4574.....	135			19.7			98			23200		
FUNKS G-4628.....	120			22.2			96			22400		
FUNKS G-4737.....	160	194	162	23.0	24.9	23.8	96	92	91	23542	23542	24000
GOLDEN HARVEST H2500*.....	141			19.5			92			23314		
HUGHES 8023.....	123			17.8			95			22400		
HUGHES SLX-39.....	149	196	182	20.0	24.0	20.7	97	93	96	22971	24000	23473
HULTING X770*.....	144	144		18.2	22.9		95	76		24000	23657	
HULTING X880.....	164	205	198	20.3	22.1	21.1	93	92	97	24000	24000	23157
HULTING X980.....	151	170	198	20.9	24.5	24.4	97	89	99	23771	23657	22842
LANDERS 9911.....	142	169		19.5	22.0		97	92		22857	24000	
LANDERS 9913.....	132	169		20.5	22.0		94	88		23200	23771	
LANDERS 9915.....	168	182		19.9	22.9		94	86		22742	22514	
LEWIS X14B.....	127			17.3			90			24000		
LEWIS X17B.....	120			18.6			97			24000		
LEWIS X62B.....	168	173		19.4	25.4		98	93		22971	22971	
LEWIS X75B.....	132			20.0			96			23200		
LEWIS X76B.....	144			19.1			91			23885		
MCALLISTER SX7300.....	141	182	170	19.8	23.1	22.8	98	100	98	24000	23314	23052
MCALLISTER SX7406.....	161		176	20.6		20.0	95		98	23314		24000
MCALLISTER SX7408.....	116	165	171	20.2	21.6	22.6	94	90	97	24000	22857	23263
MCALLISTER SX7617.....	160			20.4			95			23542		

Table 6a. — Galesburg, Increased Planting Rate, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
MCCURDY MSX70.....	155			20.3			92			23657		
MCCURDY MSX84.....	155	185	170	19.7	23.5	20.9	97	92	97	24000	23314	22947
MCCURDY MSX88.....	165	177		21.8	24.7		97	94		22857	23771	
MIGRO M-0301.....	144	141		18.5	22.1		86	88		23771	23771	
MIGRO M-0505.....	134	187		19.5	23.4		95	96		23885	23085	
MIGRO M-2018 X.....	130			18.2			96			23885		
MIGRO M-2022 X.....	164			19.3			100			23771		
NORTHROP-KING PX74.....	162		182	20.2		22.6	94		97	24000		22315
NORTHROP-KING PX79.....	125		176	20.0		21.6	95		98	23895		23473
NORTHROP-KING PX675.....	129		176	19.8		20.8	97		98	23542		23368
P.A.G. 314.....	178	194		19.8	24.5		96	88		23771	24000	
P.A.G. 340.....	154		174	19.6		20.6	96		99	24000		21684
P.A.G. SX 98.....	158		165	21.3		24.5	96		96	23085		22631
P.A.G. SX 397.....	152			18.5			98			23428		
PFIZER TXS 115A.....	139	174	175	20.5	23.0	21.6	92	95	98	22857	22971	19263
PFIZER TXS 117A.....	155	183	162	20.9	23.8	23.1	94	87	98	23771	23314	23473
PFIZER TXS 119.....	173	168	167	22.0	25.3	23.8	95	93	94	23771	24000	23052
PIIONEER 3780.....	144	152		17.5	25.5		97	97		24000	23657	
POCKLINGTON P223.....	141			20.1			95			23771		
POCKLINGTON P-673.....	151	174		21.6	25.6		93	88		23542	22400	
POCKLINGTON P-6441A.....	140	162		20.9	24.0		97	93		24000	23314	
PRIDE 6673.....	150			19.0			98			23428		
PRIDE 7715.....	159	203	183	19.8	23.6	21.3	97	95	98	23657	23657	22736
PRIDE 8824.....	137	169		20.5	23.4		96	94		22400	23542	
PRIDE R-803.....	121	161	174	18.2	24.4	18.2	96	91	95	24000	23314	22000
SEAGULL SX 10.....	125			18.0			96			23771		
SEAGULL SX 25.....	148	164		20.0	21.1		95	94		23200	23885	
SEAGULL SX 33.....	165	153	167	19.8	23.5	20.0	96	85	96	23657	23657	23157
SEAGULL SX 40.....	156	178	177	20.2	24.6	21.5	98	93	97	23314	23771	19789
SEAGULL SX 55.....	166	153	173	20.8	22.3	21.7	98	91	96	23771	23885	23263
SEAGULL SX 59.....	149	173	167	20.9	23.1	23.3	94	95	96	22171	23771	20842
SEED-KEM SKX56.....	118			18.9			94			23428		
SEED-KEM SKX76.....	160	139		20.4	22.6		96	88		23885	23542	
STEWART S349.....	150			19.4			95			22742		
STEWART SX49.....	151	169	168	20.2	25.2	22.9	97	88	99	24000	23657	23684
STEWART SX70.....	173	186		20.4	25.0		95	84		21371	24000	
STEWART SX1974.....	169			21.7			95			22514		
STEWART SX6373.....	161	182		20.6	22.9		96	96		23085	22628	
STURDY-GROW S/G 805A.....	143			21.2			98			23314		
STURDY-GROW S/G 807.....	171	168		21.0	24.0		98	96		24000	22285	
STURDY-GROW S/G 825A.....	157			20.1			95			23657		
SUPER-CROST 2890A.....	127			18.6			99			23771		
SUPER-CROST 4242.....	146	190	151	18.8	22.0	19.2	95	79	97	23657	22628	22736
SUPER-CROST 4350.....	119	157		19.4	22.8		93	93		22400	24000	
SUPER-CROST 5440.....	134	177	195	19.9	23.1	20.3	99	91	98	23771	22971	19894
TAYLOR-EVANS T.E. 6935.....	125			20.4			96			23885		
TAYLOR-EVANS T.E. 6968.....	163	170	154	20.6	23.0	20.0	92	91	98	23314	23885	22210
TAYLOR-EVANS T.E. 6980.....	154	166	176	21.5	24.5	23.4	94	95	96	23314	23885	22421
TAYLOR-EVANS T.E. 6992.....	137	161	181	19.7	24.2	18.7	98	90	98	23200	22171	21368
TAYLOR-EVANS T.E. 6995.....	137	202		20.0	22.4		95	95		23542	23657	
TRACY T2091.....	136			18.3			98			22857		
TRACY T210.....	120			18.0			98			23428		
TRACY T214.....	153			20.3			91			23428		
TRACY T316.....	139			20.4			95			23885		
U.S.S. 0010.....	155			19.3			96			23771		
WYFFELS W-26.....	142	145		18.2	20.9		98	91		23085	24000	
WYFFELS W-50.....	144	186		18.9	21.5		97	84		23428	23657	
WYFFELS W-60.....	156	169	189	20.6	23.7	22.6	97	93	97	22171	23200	22736
AVERAGE OF 1977 ENTRIES.....	146			19.9			96			23364		
L.S.D. 10% LEVEL.....	30			1.0			..			1156		
L.S.D. 30% LEVEL.....	19			0.6			..			728		
C.V.....	15			3.8			4			4		

Table 7. — West-Central Illinois: Carthage (Planted at 24,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO UC 8951.....	82			23.9			95			22258		
ACCO UC 9451.....	77	144		22.7	23.2		96	95		21322	23114	
AINSWORTH X-605.....	74			23.2			92			24391		
AINSWORTH X-615.....	67			22.7			95			22805		
AINSWORTH X-619.....	75			23.0			97			23148		
AMERICANA 3200.....	77		123	21.5		19.7	94		98	21122		24000
AMERICANA 3500A.....	59			22.3			96			22015		
AMERICANA 4700.....	62			24.5			95			23123		
AMERICANA 6700.....	71		134	24.4		19.0	95		98	23244		22666
BO-JAC X7L	94	134		23.5	21.5		95	95		17630	22057	
BO-JAC X52A.....	95	144	133	23.0	19.9	20.7	95	96	96	23147	22628	23851
BO-JAC X52B.....	103			22.2			97			23916		
BO-JAC X56.....	82	103	131	23.2	19.9	18.5	95	96	99	23085	22742	24000
BO-JAC X56B.....	92			24.0			95			20941		
CARGILL 920.....	87	102	126	22.3	18.3	19.5	96	96	98	23113	22857	23555
CARGILL 949.....	64	104	138	24.2	19.0	17.5	98	93	99	20218	23428	22962
CARGILL 956.....	61			24.6			98			20294		
DEKALB XL 65B.....	103			23.4			93			22008		
DEKALB XL 72A.....	79			23.1			92			24138		
DEKALB XL 72B.....	97	118		23.9	21.3		96	93		22313	22971	
DENNIS DS6.....	84			22.1			97			22680		
DENNIS DS31.....	84	147	122	22.1	19.0	20.1	93	93	99	23497	22400	23851
DENNIS DS37.....	94	128	145	23.4	22.0	18.4	95	98	100	22787	23200	23851
DENNIS DS39.....	81			24.4			93			22562		
DENNIS DS47A.....	85			21.9			95			18500		
DENNIS DS48.....	67			22.9			96			23113		
FS 466.....	70	128		21.9	17.9		96	97		22382	23428	
FS 642.....	67	145		22.8	21.7		95	97		22677	23771	
FS 680.....	133	135	134	23.1	18.6	18.1	94	93	100	20228	21257	22666
FS 850.....	86	124	154	23.0	21.0	21.1	92	99	97	21873	20914	22814
FS 854.....	103	148	144	23.8	19.6	21.9	92	92	97	21187	22285	23111
FUNKS G-4321A.....	73	75	133	21.3	19.3	15.8	91	93	98	23269	23885	22962
FUNKS G-4430.....	95			21.5			92			23432		
FUNKS G-4449.....	64	32	112	24.3	19.0	18.4	98	92	99	22801	22514	24000
FUNKS G-4507.....	78	108	152	23.6	20.7	18.5	94	91	100	22310	21600	23703
FUNKS G-4520.....	56	117		14.6	20.6		91	92		20533	21142	
FUNKS G-4574.....	74			21.9			95			19345		
FUNKS G-4628.....	84	147		24.6	20.5		91	96		20893	22400	
FUNKS G-4717.....	78	145	147	25.6	22.9	21.8	98	96	96	22625	23542	23259
HOBLIT XR435.....	63			21.3			93			22694		
HOBLIT XR451.....	63	141		24.2	22.9		96	98		20727	21257	
HULTING X830.....	62	131		22.1	20.0		93	93		22486	22171	
HULTING X930.....	52	120		24.7	21.9		94	94		22690	23314	
LEWIS 405B.....	83			22.7			98			20138		
LEWIS 733B.....	73			23.4			94			23196		
LEWIS X62B.....	80	165	132	22.4	20.0	16.4	95	97	99	19986	22971	23407
LEWIS X69B.....	69			23.2			97			20737		
LEWIS X77B.....	71			23.3			95			23258		
MCALLISTER SX6837.....	81	155	141	24.4	19.6	19.4	94	94	98	20651	21942	23407
MCALLISTER SX7300.....	69	135	148	20.9	21.0	18.6	96	94	97	21821	22971	23851
MCALLISTER SX7406.....	93		115	21.5		17.2	91		98	22521		24000
MCALLISTER SX7408.....	61		103	23.1		19.8	96		98	23605		24000
MCALLISTER SX7617.....	73			23.2			96			22289		
MCCURDY MSX70.....	67	121		22.8	20.4		93	93		23310	22514	
MCCURDY MSX84.....	73	134	118	23.9	19.4	19.4	99	92	98	23532	22628	23259
MCCURDY MSX84A.....	83			22.3			93			21111		
NORTHROP-KING PX74.....	62		128	24.3		18.8	94		100	21790		23407
NORTHROP-KING PX76.....	87		127	24.3		17.8	88		98	22566		21629
NORTHROP-KING PX79.....	46		119	22.8		20.5	96		99	24013		23259
NORTHROP-KING PX675.....	78		112	22.4		17.7	95		97	20619		23111

Table 7.— Carthage, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
O'S GOLD SX3400.....	94	133		23.3	20.4		95	98		19806	23657	
O'S GOLD SX5500A.....	79		123	22.8		19.7	93		99	22791		22962
P.A.G. 314.....	76	122		22.2	20.4		96	91		22223	20914	
PFIZER T 1120.....	66			22.7			96			23386		
PFIZER TXS 114.....	87	124	151	23.1	22.4	20.2	96	92	99	19930	23314	23555
PFIZER TXS 115A.....	80	98	131	23.8	21.1	18.3	96	93	99	23369	23542	23851
POCKLINGTON P-673.....	73	144		24.0	20.3		91	96		23006	23428	
POCKLINGTON P-6392.....	76			23.9			94			20096		
POCKLINGTON P-6441A.....	57			22.4			93			22296		
PRIDE 7715.....	70	128	138	22.6	19.4	19.1	96	98	99	21374	23542	22370
PRIDE 8824.....	82	114	120	24.5	19.4	17.3	93	93	98	22746	21828	22814
PRIDE R-803.....	80	129	123	21.7	18.7	17.8	95	89	96	24041	22514	23407
SUPER-CROST 4350.....	73			22.6			95			23348		
SUPER-CROST 5440.....	75	129		23.1	18.5		94	95		23082	20571	
SUPER-CROST 585.....	72			23.8			93			22458		
TAYLOR-EVANS T.E. 6968.....	85	123		23.8	21.9		92	97		21513	22285	
TAYLOR-EVANS T.E. 6980.....	87	129		24.2	22.9		96	92		22770	23657	
TAYLOR-EVANS T.E. 6992.....	60	95		22.2	19.0		92	90		23099	22857	
TAYLOR-EVANS T.E. 6995.....	89	135		23.6	21.6		95	94		22133	23542	
U.S.S. 0010.....	86			22.8			95			20155		
U.S.S. 1010.....	71	137	132	22.0	23.7	20.2	95	97	100	22126	22400	22518
AVERAGE OF 1977 ENTRIES.....	77			23.0			95			22105		
L.S.D. 10% LEVEL.....	25			2.5			..			2724		
L.S.D. 30% LEVEL.....	16			1.6			..			1714		
C.V.....	24			7.9			3			9		

Table 8. — Central Illinois: Hartsburg (Planted at 24,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO UC 8951.....	89	177	182	22.2	22.5	20.3	99	100	94	22742	23085	22911
AINSWORTH X-605.....	85			21.9			99			23771		
AINSWORTH X-609.....	122			21.8			99			22971		
AINSWORTH X-615.....	114			21.1			100			21828		
AINSWORTH X-617.....	133			21.8			99			23835		
AINSWORTH X-619.....	100			22.9			100			24000		
AINSWORTH X-620.....	103			22.4			99			23771		
ANDERSON AX-9.....	121	123		21.0	18.7		100	100		24000	23657	
ANDERSON AX-12.....	86	110		22.4	20.7		99	100		23542	22971	
ANDERSON SSL.....	103	161		21.8	20.8		99	100		21942	23200	
ANDERSON SST.....	134	151		22.2	21.0		99	100		19542	23085	
ANDERSON SSX.....	75	129		20.2	17.5		99	100		23428	23200	
ASGROW RX90.....	117	156		21.6	20.3		99	100		22628	22628	
ASGROW RX101.....	91			22.0			100			22742		
BO-JAC X7L.....	111	148	190	23.1	22.3	19.7	99	97	97	23835	23200	22269
BO-JAC X36.....	134			21.5			100			22742		
BO-JAC X52A.....	154	162	184	22.1	21.8	17.8	100	100	95	22971	22742	21004
BO-JAC X52B.....	93	150	203	20.9	21.6	16.8	99	100	98	21942	23885	22466
BO-JAC X56.....	115	169	180	21.4	20.5	16.3	100	100	98	23314	22400	22286
BO-JAC X83.....	129	167	198	22.5	22.3	19.2	99	98	99	23085	22171	21006
BO-JAC X193.....	104			21.1			100			22514		
BO-JAC X347.....	121			21.0			99			24000		
BO-JAC X847.....	94			21.0			100			23314		
CARGILL 920.....	104	115	155	20.3	17.7	16.3	100	100	98	22628	22285	21351
CARGILL 949.....	101	130	203	20.8	19.5	17.2	98	100	96	22514	23542	20908
CARGILL 966.....	108			21.9			100			24000		
DEKALB XL 64.....	124	152	148	23.0	19.4	17.4	100	97	97	23771	23771	22789
DEKALB XL 64A.....	123	138		20.8	19.2		98	95		23428	23885	
DEKALB XL 65B.....	113			20.5			98			21600		
DEKALB XL 72AA.....	144			21.5			99			23771		
DEKALB XL 72B.....	118			22.9			100			22057		
DENNIS DS6.....	116			22.3			100			23542		
DENNIS DS31.....	161	167		21.0	25.2		99	100		24000	23200	
DENNIS DS37.....	115	154	198	21.0	20.0	17.5	99	100	95	23657	23428	23738
DENNIS DS39.....	135			23.3			99			23314		
DENNIS DS47A.....	111			20.9			99			18742		
DENNIS DS48.....	83			21.9			99			22285		
FS 444.....	127			19.6			99			21714		
FS 642.....	142	164		21.6	21.0		99	100		23428	23314	
FS 630.....	122	148	148	21.2	19.3	16.5	99	100	95	18514	21600	22370
FS 850.....	102	143	162	22.5	23.3	20.2	99	100	90	24000	22400	23854
FS 854.....	103	167	199	23.2	23.1	19.7	100	95	87	24000	23542	22673
FUNKS G-4321A.....	103	119	133	20.9	21.0	14.7	100	100	97	22971	23428	23265
FUNKS G-4430.....	93			20.1			99			22400		
FUNKS G-4449.....	93	145	136	21.4	20.1	17.0	99	100	95	22857	23200	23263
FUNKS G-4507.....	111	111	164	21.4	19.0	16.5	100	97	100	23314	23314	23682
FUNKS G-4520.....	137	150		21.5	20.5		99	95		23771	23771	
FUNKS G-4574.....	97			21.9			99			21714		
FUNKS G-4623.....	124	147	189	22.0	21.0	20.2	100	98	98	21600	23085	23266
FUNKS G-4737.....	112	167		23.4	24.6		100	98		22628	24000	
GOLDEN HARVEST H2500.....	107	146		21.3	20.7		99	100		23428	23885	
GUTWEIN 62.....	106	142	188	22.5	20.0	17.6	100	100	99	23657	23771	20448
GUTWEIN 64.....	139	144	187	21.4	21.0	18.1	99	100	99	22628	23085	17642
HOBLIT XR441A.....	145	174		22.5	21.2		100	100		22285	21714	
HOBLIT XR451.....	117	158	161	22.1	20.6	19.7	100	98	98	23835	23200	22332
HULTING X830.....	76	134		21.3	19.9		99	100		22628	23542	
HULTING X930.....	87	144		23.5	25.0		100	100		22628	22857	
LANDERS 9911.....	110			22.4			99			22400		
LANDERS 9913.....	120			22.7			99			20457		
LANDERS 9915.....	143			21.4			98			20571		
LANDERS 9917.....	105			21.8			99			22628		
LANDERS 9919.....	85			22.9			99			20914		
LEWIS 7338.....	124			20.7			100			23885		
LEWIS X193.....	100			21.1			99			23428		
LEWIS X24B.....	133	157	182	23.2	21.0	17.0	99	100	99	19771	22742	23758

Table 8.—Hartsburg, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
LEWIS X33B.....	110	153	200	21.7	22.6	17.3	99	98	98	23771	22742	21084
LEWIS X62B.....	113	120	186	22.7	18.9	16.5	100	97	98	23085	22742	23447
LEWIS X73B.....	135		174	23.0		19.6	99		93	19542		23985
LEWIS X77B.....	109			22.0			100			21485		
MCALLISTER SX7617.....	119			22.3			100			23085		
MCALLISTER TX7518.....	87	172		22.3	22.3		99	100		22628	23771	
MCCURDY MSX70.....	123	141		21.2	20.0		100	100		23657	22742	
MCCURDY MSX84.....	126	138	183	23.2	19.9	17.1	100	98	96	23314	22628	21837
MCCURDY MSX84A.....	148			20.3			100			22857		
MIGRO M-0301.....	103	97		19.9	19.3		98	94		23428	23885	
MIGRO M-0505.....	119	143		21.0	21.8		100	100		22628	23314	
MIGRO M-0601.....	129	159	185	22.2	20.5	18.1	99	100	99	23657	23428	23423
MIGRO M-2018 X.....	119			20.2			98			22285		
MIGRO M-2022 X.....	85			20.3			100			24000		
MIGRO M-6666.....	129	152	172	22.4	21.4	18.8	99	100	98	23085	24000	22643
NORTHRUP-KING PX74.....	119		175	21.6		17.9	99		98	23428		22452
NORTHRUP-KING PX79.....	82		160	20.8		16.8	99		97	21714		22750
NORTHRUP-KING PX675.....	89		160	21.5		16.3	100		97	24000		23030
O'S GOLD SX5500A.....	134	144	205	20.6	22.4	17.4	100	99	98	23428	23771	22161
O'S GOLD SX5500AB.....	115			21.2			99			22628		
P.A.G. 314.....	119	174		21.7	21.0		99	100		23200	23542	
P.A.G. SX 98.....	101		181	21.7		19.8	99		99	23657		22419
PFISTER 65.....	161	161		21.7	22.1		100	100		24000	22971	
PFISTER 68.....	125	148		22.4	21.4		99	95		22628	23771	
PFISTER 70.....	126	135		22.3	19.5		99	90		23771	23200	
PFISTER 75.....	100	133		20.8	18.4		99	97		20914	22057	
PFISTER 77.....	105	147		23.3	25.4		100	100		23657	23314	
PFIZER TXS 114.....	115	179	197	22.1	21.6	19.5	99	97	98	24000	22971	23970
PFIZER TXS 115A.....	83	146	180	21.3	21.0	15.3	99	95	97	22057	24000	22814
PFIZER TXS 117A.....	103	135		23.1	23.0		100	100		22057	23200	
PIONEER 3334A.....	120		167	22.4		18.1	99		99	24000		23287
PIONEER 3388.....	105		170	21.9		16.8	99		100	22057		22822
PIONEER 3517.....	86			20.3			99			20342		
PIONEER 3780.....	76	140		22.3	17.7		99	95		23885	23085	
POCKLINGTON P-6341A.....	88			21.2			100			22285		
POCKLINGTON P-7661.....	114			22.8			100			23314		
STEWART SX70.....	133			22.5			99			22057		
STEWART SX1973.....	141			23.9			99			22514		
STEWART SX6373.....	113			21.6			100			21600		
STURDY-GROW S/G 805A.....	104			21.6			100			22514		
STURDY-GROW S/G 807.....	104	172		22.4	20.8		99	100		21600	23657	
STURDY-GROW S/G 825A.....	102			21.0			99			23200		
SUPER-CROST 4242.....	117			21.7			99			22971		
SUPER-CROST 4350.....	73	144		22.3	19.0		99	95		24000	23314	
SUPER-CROST 5440.....	110	162	182	22.1	22.3	16.9	99	98	98	23657	23771	23668
SUPER-CROST S85.....	105		147	22.3		19.5	100		98	22742		18300
TRISLER EXP. 377.....	136			21.7			99			22628		
TRISLER T-320.....	127	109		21.7	20.0		99	97		23542	22971	
TRISLER T-335.....	127	128	172	21.9	22.0	18.6	100	97	95	23771	23885	23107
TRISLER T-2500.....	100		150	20.9		14.7	99		94	23771		21901
TRISLER T-2500A.....	117			19.6			99			24000		
TRISLER T-5150.....	119	136	177	20.2	18.8	16.6	99	97	98	21371	22514	21179
TRISLER T-5450.....	122	188	173	21.7	19.3	17.4	99	98	95	22857	23771	22896
TRISLER T-5500.....	117	151	170	22.7	22.4	17.3	99	100	97	21828	23657	23583
TRISLER T-7350.....	142	160		23.3	22.0		99	100		23657	23314	
TRISLER T-7500.....	115	150	161	22.6	23.0	18.6	99	100	94	21714	24000	18313
AVERAGE OF 1977 ENTRIES.....	114			21.8			99			22773		
L.S.D. 10% LEVEL.....	31			1.3			..			..
L.S.D. 30% LEVEL.....	20			0.8			..			..
C.V.....	20			4.6			1			8		

Table 9. — East-Central Illinois: Urbana (Planted at 20,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO A541500.....	143	215		25.5	26.6		99	84		19666	20000	
ACCO AR56235.....	141			28.9			100			20000		
ACCO UC 9451.....	151	186	223	26.3	25.5	25.7	100	94	100	19777	19374	18645
ACCO UC 9451.....	139	202	180	27.8	26.0	25.5	100	87	100	19888	19875	18597
AINSWORTH X-605.....	136			23.0			99			19222		
AINSWORTH X-515.....	138			24.3			99			19777		
AINSWORTH X-620.....	141			25.6			98			19222		
AMERICANA 3200.....	138		187	24.7		21.9	100		98	19444		19913
AMERICANA 3509A.....	120		164	24.5		19.1	99		100	19777		17825
AMERICANA 4700.....	134			25.4			99			19888		
AMERICANA 6700.....	126			25.0			98			19666		
ANDERSON AX-9.....	138	189	177	24.0	23.1	19.0	100	80	100	20000	19370	19494
ANDERSON AX-12.....	109	189	171	24.2	25.0	20.9	100	90	98	19777	19869	19818
ANDERSON SSL.....	149	184		24.3	25.5		100	89		19111	19875	
ANDERSON SST.....	133	181		25.4	24.3		98	92		19555	19621	
ANDERSON SSX.....	100	154		22.1	21.5		97	97		19444	18765	
ASGROW RX90.....	157		166	24.8		19.5	100		98	20000		20292
ASGROW RX101.....	142			26.4			100			19888		
ASGROW RX2445.....	122			23.6			100			19444		
BO-JAC X7L.....	116		163	25.8		22.7	99		100	19444		19721
BO-JAC X55.....	149	196	183	24.5	27.3	22.5	99	89	97	20000	19630	19348
BO-JAC X33.....	144	190	206	26.6	27.2	24.0	97	94	97	19888	19878	19690
BO-JAC X193.....	130			23.6			98			19555		
BO-JAC X516.....	110			23.5			96			19888		
BO-JAC X347.....	104			22.9			98			19888		
BO-JAC X923.....	157			28.1			100			19666		
CORN KING 1143.....	140	181	191	23.8	25.2	19.6	100	86	98	18777	19999	19625
DENNIS D337.....	145			24.8			100			19888		
DENNIS D339.....	154			26.0			100			20000		
DENNIS D548.....	121			24.5			100			19444		
DENNIS D5337.....	143			23.0			100			20000		
FS 444.....	113			22.7			97			19222		
FS 642.....	144	195		24.9	27.5		100	88		19555	20005	
FS 680.....	144	176	179	24.7	26.0	22.5	100	97	98	19888	19993	18649
FS 850.....	146	170	169	26.6	27.2	24.6	99	100	97	19555	19510	19881
FS 854.....	144	191	167	28.4	24.3	25.5	94	61	92	19222	20000	18646
PREY F72.....	113	183		23.6	22.9		94	94		19777	19998	
PREY F76.....	146	193	173	26.3	23.4	20.3	100	84	99	20000	19997	19075
PREY FX65.....	120			24.7			98			19888		
PREY FX70.....	151	204	212	24.2	25.6	20.8	98	88	98	19666	19881	18779
PUNKS G-4321A.....	122	197	155	22.5	17.9	17.7	96	96	96	19666	19756	19954
PUNKS G-4430.....	143			22.1			95			19555		
PUNKS G-4449.....	122	196	178	24.1	24.1	19.6	96	85	100	19000	19747	18559
PUNKS G-4507.....	132	200	206	24.2	24.4	20.3	100	92	99	19666	19997	19524
PUNKS G-4520.....	154	186		24.9	23.9		100	89		19777	19749	
PUNKS G-4574.....	132			24.4			98			19555		
PUNKS G-4628.....	112	175		25.1	28.7		98	98		18222	19995	
PUNKS G-4737.....	145	174	190	28.1	28.1	24.7	98	95	97	20000	19998	19364
GOLDEN HARVEST H-2460 (EXP.445)	115	153		22.9	20.3		98	93		19555	20008	
GOLDEN HARVEST H2500.....	134	211	182	24.5	24.5	21.1	98	94	100	20000	19987	18762
GOLDEN HARVEST H-2577 (EXP.377)	141	197		26.3	26.6		100	92		19444	19373	
GOLDEN HARVEST H2600.....	135	175	162	23.7	26.1	20.4	100	95	98	20000	19630	19124
HULTING X770.....	141			23.2			98			20000		
HULTING X880.....	154	200	185	24.0	24.6	21.0	100	90	100	19777	19504	19710
HULTING X980.....	121	182	160	25.4	28.7	24.8	98	96	96	19444	19751	19451
HULTING X8800.....	128	183	192	24.9	27.4	21.7	97	97	98	20000	19871	19658
LEWIS 405B.....	131			24.6			98			19222		
LEWIS X33B.....	142	193		25.2	27.0		99	89		19888	20005	
LEWIS X62B.....	127	188	188	25.0	27.7	21.1	100	85	98	20000	19876	17207
LEWIS X75B.....	146			24.3			99			19444		
LEWIS X76B.....	121	187		22.3	23.4		92	97		20000	19879	
LEWIS X81B.....	187			28.1			100			19666		
MCALLISTER SX7300.....	141		195	24.4		20.3	98		100	19666		19874
MCALLISTER SX7408.....	118			25.5			100			19777		
MCALLISTER SX7617.....	140			25.7			99			19222		

Table 9. — Urbana, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
MCCURDY 76-74.....	152			24.9			98			20000		
MCCURDY MSX46.....	117	165		21.8	22.9		98	94		20000	19875	
MCCURDY MSX65.....	159	179		26.3	26.4		98	86		19555	19634	
MCCURDY MSX70.....	113	172		25.0	26.9		100	95		19666	19381	
MCCURDY MSX84.....	131	203	192	24.2	23.9	21.3	98	93	99	19444	19630	19641
MCCURDY MSX84A.....	133			23.8			97			20000		
MIGRO M-0301.....	131	221		22.5	22.9		97	95		20000	19145	
MIGRO M-0505.....	166	215		25.1	27.2		98	97		19777	19878	
MIGRO M-0601.....	164	208		25.7	25.8		100	85		19777	19995	
MIGRO M-2013 X.....	124			23.2			99			19888		
MIGRO M-2022 X.....	119			22.8			99			19888		
MUNCY-CHIEF H764.....	129	196	158	25.9	23.5	22.4	100	95	97	19222	18394	17109
MUNCY-CHIEF SX662.....	151	191	184	24.4	24.5	20.6	100	87	100	19222	20006	18326
MUNCY-CHIEF SX777.....	123	168	176	23.2	24.4	20.4	100	93	100	19888	20007	18365
MUNCY CHIEF SX808B.....	123	177		26.4	27.4		100	87		18111	20000	
MUNCY-CHIEF SX878.....	134	190	164	26.5	26.4	25.4	100	85	99	19777	19509	18811
NOBLE NB 235 *.....	112			25.2			97			19777		
O'S GOLD SX5353.....	136			26.4			100			19888		
O'S GOLD SX5500.....	126	181	153	27.0	28.9	23.9	98	101	98	19777	19747	18903
O'S GOLD SX5500A.....	117	198	200	24.3	24.9	22.4	100	98	97	19333	20001	17417
P.A.G. 314.....	151			23.6			99			19666		
PFISTER 65.....	167	173		26.0	25.4		100	86		19888	19884	
PFISTER 68.....	153	205		24.8	25.4		100	83		19555	19626	
PFISTER 70.....	131	191		24.6	24.1		98	95		19777	19998	
PFISTER 72.....	127			23.5			94			19888		
PFISTER 75.....	141	185		24.0	25.9		97	82		19888	20003	
PFISTER 77.....	120	173		28.0	27.9		98	99		19888	20009	
POCKLINGTON P-782.....	131			26.0			98			19000		
POCKLINGTON P-6341A.....	108			23.6			100			20000		
POCKLINGTON P-6342.....	131	164	208	25.9	24.8	23.3	100	86	99	19777	19137	19382
PRAIRIE STREAM GOLDENCROSS SX 44.....	113			24.0			100			19333		
PRAIRIE STREAM GOLDENCROSS SX 66.....	128			25.3			100			19666		
PRINCETON SX430.....	130			23.4			98			19888		
PRINCETON SX840.....	168	178	211	27.9	30.7	27.1	99	87	100	20000	19749	18805
SUPER-CROST 4242.....	132			23.5			100			20000		
SUPER-CROST 4350.....	112			23.0			100			19888		
SUPER-CROST 5440.....	136			24.2			100			20000		
SUPER-CROST 585.....	136			25.5			98			19666		
TRISLER EXP. 377.....	148			24.6			100			20000		
TRISLER T-335.....	131	187		25.4	24.4		95	91		19888	19995	
TRISLER T-5150.....	117	175		25.0	25.5		99	99		20000	19890	
TRISLER T-5450.....	153	195		23.9	27.9		100	98		20000	19998	
TRISLER T-5500.....	127	176		26.2	26.0		98	88		20000	19500	
TRISLER T-7350.....	148	203		25.5	26.9		99	60		20000	19997	
TRISLER T-7500.....	115	171		26.7	27.3		98	95		19555	19513	
U.S.S. 1010.....	132		170	24.1		21.3	99		98	19666		17834
VORIS V 2532.....	140			25.0			98			20000		
VORIS V 2602.....	133			25.7			100			19555		
VORIS V 2642.....	121			24.9			98			19111		
AVERAGE OF 1977 ENTRIES.....	135			24.9			99			19683		
L.S.D. 10% LEVEL.....	23			1.9			3			629		
L.S.D. 30% LEVEL.....	15			1.2			2			396		
C.V.....	13			5.7			2			2		

Table 9a. — East-Central Illinois: Urbana, Increased Planting Rate
(Planted at 24,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL FIELD BU./ACRE			GRAIN MOISTURE PERCENT			EFFECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCOB 323.....	125			28.1			100			24000		
ACCOB UC 3251.....	145	212	224	28.5	27.4	24.3	99	99	99	23882	23906	20925
ADI 315.....	134			25.3			100			23764		
ADI 555.....	134			25.4			100			23294		
ADI 585.....	114			27.5			100			23294		
ADI 626.....	154			29.6			100			24000		
AINSADE 11 X-515.....	134	112		25.5	24.6		100	96		23058	23707	
AINSADE 11 X-517.....	145			29.2			100			23411		
AINSADE 11 X-519.....	113			26.2			99			23647		
ANDERSON 33A-8.....	152	181	175	24.8	23.7	23.0	100	88	97	23411	23366	23375
ANDERSON 33A.....	130	183		26.4	25.2		99	95		24000	23013	
ANDERSON 337.....	112	144		25.2	42.3		99	94		23882	23910	
ANDERSON 33A.....	133			27.0			99			23647		
ANDERSON 33A.....	105	164		21.3	21.4		99	87		23411	24020	
BO-JAC 17L.....	130		174	27.5		25.0	98		97	23882		24040
BO-JAC 152A.....	155	205	190	25.1	26.1	25.9	98	78	99	23892	23374	22063
BO-JAC 152B.....	153	234	152	26.5	24.2	21.5	99	87	98	24000	24001	22700
BO-JAC 155A.....	137	216	204	27.6	26.5	23.3	100	98	99	24000	23986	21656
BO-JAC 155B.....	155	202	202	26.5	25.1	23.3	100	91	98	24000	22364	20996
BO-JAC 133.....	145	206	210	25.7	27.8	27.2	100	97	98	21647	23745	21060
BO-JAC 1193.....	135			25.5			100			22823		
BO-JAC 1515.....	111			25.3			88			23411		
BO-JAC 1347.....	111			23.6			100			23058		
BO-JAC 1323.....	154			30.4			100			23411		
CARGILL 920.....	145	167	184	24.5	22.5	20.6	95	86	100	23411	24015	22810
CARGILL 943.....	147	226	191	26.0	24.5	26.7	99	92	99	23529	23645	20651
CARGILL 955.....	127			25.5			100			22941		
CENEX 2330.....	137			25.3			98			22588		
CENEX 2335.....	121			28.5			100			23294		
COKER 15.....	135			27.6			100			23529		
DEKALB 1L 64*.....	131	166	169	25.6	23.9	23.4	99	82	97	22470	24000	21118
DEKALB 1L 65B.....	141			25.4			100			23882		
DEKALB 1L 72AA*.....	130			26.2			100			22705		
DEKALB 1L 723*.....	149			26.9			100			23294		
DENNIS 035.....	119			24.0			98			24000		
DENNIS 0331.....	120	179		25.5	27.0		100	94		23764	23334	
DENNIS 0337.....	132	228	191	28.2	24.2	22.1	100	96	99	22941	23368	23038
DENNIS 0339.....	136			28.1			100			24000		
DENNIS 0347A.....	128			24.8			100			22352		
DENNIS 0343.....	108			26.0			100			23764		
DOCKENDORFF 7700.....	128			27.0			100			23058		
FS 444.....	138			24.1			98			23882		
FS 642.....	151	174		26.0	25.7		100	92		23411	23992	
FS 690.....	140	219	184	25.7	23.7	22.5	100	98	98	23294	23384	21178
FS 350*.....	153	175	182	26.0	27.3	27.6	98	94	97	24000	23411	20979
FS 854.....	119	172	189	29.5	25.8	26.9	100	86	94	22000	23629	21340
FUNKS G-4321A.....	128	164	172	22.5	21.6	18.5	98	97	99	23411	23863	21073
FUNKS G-4430.....	97			23.8			98			24000		
FUNKS G-4449.....	134	162	204	24.4	22.3	21.5	100	77	98	23647	24018	21004
FUNKS G-4507*.....	128	188	217	24.6	23.4	26.1	100	96	100	22941	23956	24034
FUNKS G-4520.....	156	218		27.5	24.2		100	84		23058	23099	
FUNKS G-4574.....	116			25.3			100			23882		
FUNKS G-4628.....	118	162		29.7	28.1		100	96		23058	22384	
FUNKS G-4737.....	144	189	132	28.9	27.1	26.2	100	89	94	23529	22535	24051
GOLDEN HARVEST H-2460 (EXP. 445).....	111	178		22.2	21.3		100	100		25411	23363	
GOLDEN HARVEST H2500*.....	150	178	199	25.7	25.2	24.3	100	86	99	23764	24021	22262
GOLDEN HARVEST H-2577 (EXP. 377).....	137	188		28.2	28.9		99	81		24000	23645	
GOLDEN HARVEST H2600.....	124	186	177	23.5	23.3	23.1	97	95	99	23647	24021	23397
GUTWAIN 55.....	126			23.4			95			23764		
GUTWAIN 62.....	143	177	204	24.7	25.7	23.3	100	92	99	23411	23638	19996
GUTWAIN 64.....	155	194	187	26.2	24.9	23.2	98	87	100	23764	22601	22334
GUTWAIN 65A.....	126	197	182	26.7	23.1	24.2	100	84	97	23764	21385	22210
GUTWAIN 72.....	125	184		27.9	23.8		100	94		24000	23374	
HOBLIT 13450.....	125			28.0			99			23882		
HULTING 1080.....	108	183		25.9	26.4		100	95		23294	22872	

Table 9a. — Urbana, Increased Planting Rate, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
HULTING X980.....	132	176		27.0	25.9		100	94		23529	23406	
HULTING X6800.....	118			26.6			100			22941		
LANDERS 9911.....	120	163		25.0	24.8		100	90		23764	22925	
LANDERS 9913.....	115	176		26.7	24.5		100	99		23764	24024	
LANDERS 9915.....	128	209		27.1	24.6		99	89		23529	23389	
LANDERS 9917.....	127	154		27.1	27.4		98	91		23529	23133	
LANDERS 9919.....	110	165		27.2	27.9		100	90		23882	23162	
LEWIS X14B.....	102			22.3			99			23411		
LEWIS X24B.....	165	224	217	27.1	25.4	27.2	100	82	98	23529	23776	23386
LEWIS X62B.....	125	190	208	26.9	25.9	24.0	100	87	97	22755	23497	21553
LEWIS X69B.....	134			27.5			100			23832		
LEWIS X75B.....	145			26.8			99			23882		
LEWIS X76B.....	131	170		25.1	22.0		100	91		23176	23966	
LEWIS X77B.....	122			26.7			100			23529		
LEWIS X81B.....	175			27.9			100			23647		
MCALLISTER SX7300.....	154		206	26.6		24.5	100		97	24000		19838
MCALLISTER SX7408.....	114		166	25.8		22.2	100		100	23647		21704
MCALLISTER SX7617.....	127			27.6			100			23294		
MCCURDY 76-74.....	123			25.2			100			24000		
MCCURDY 76-90.....	144			28.4			99			23892		
MCCURDY MSX65.....	147	215		29.6	25.2		99	91		23294	23847	
MCCURDY MSX70.....	120	192	181	27.7	26.7	20.6	100	91	98	23882	22979	21850
MCCURDY MSX84.....	145	188	236	27.6	25.8	20.2	100	94	98	23764	22641	22787
MCCURDY MSX84A.....	140			26.4			100			23529		
MIGRO M-0301.....	111	182		23.5	21.0		97	97		23647	23620	
MIGRO M-0505.....	133	193		24.9	24.6		100	94		23882	23717	
MIGRO M-2018 X.....	102			20.8			98			23882		
MIGRO M-2022 X.....	122			21.4			100			24000		
NOBLE NB 2461.....	102			22.4			100			23411		
NOBLE NB 2551.....	153			27.2			100			23529		
NORTHROP-KING PX74.....	121		201	26.7		23.1	99		100	22823		20134
NORTHROP-KING PX79.....	110			27.5			100			23058		
NORTHROP-KING PX675.....	114		190	26.4		24.9	100		99	23529		23589
O'S GOLD SX5500.....	121	191		28.3	28.2		100	95		23529	23984	
O'S GOLD SX5500A.....	145			26.6			99			22823		
O'S GOLD SX5500AB.....	163			26.9			100			24000		
P.A.G. 314.....	145	188		26.4	24.0		98	88		23176	23634	
P.A.G. SX 98.....	117	189	165	27.3	27.7	26.2	98	95	96	24000	22878	19541
P.A.G. SX 397.....	116			24.3			100			23058		
PFIZER T 1120.....	144			27.4			100			23764		
PFIZER TXS 114.....	134	187	204	27.0	24.7	27.6	100	95	97	23882	23993	23813
PFIZER TXS 115A.....	139	192	202	27.7	25.7	22.2	100	93	98	24000	23961	22215
PFIZER TXS 117A.....	128	202		27.0	23.7		99	93		23294	23780	
PIONEER 3780.....	93		139	22.2		19.0	100		99	21882		22446
POCKLINGTON P-673.....	127	186		26.2	26.8		98	88		23882	23627	
POCKLINGTON P-6441A.....	113			27.6			100			23647		
POCKLINGTON P-7661.....	107			25.9			98			22941		
POCKLINGTON PX-6.....	109			30.1			100			24000		
PRAIRIE STREAM GOLDEN CROSS SX4.....	132	220	222	27.5	24.3	24.6	100	90	97	23647	23255	21611
PRAIRIE STREAM GOLDEN CROSS SX5B.....	140	197	195	27.5	27.7	26.7	99	92	98	23647	23603	21823
PRAIRIE STREAM GOLDEN CROSS SX6A.....	140	190	190	25.7	24.3	23.2	100	91	98	23647	23727	21036
PRAIRIE STREAM GOLDENCROSS SX 66.....	135			28.8			100			23058		
PRINCETON SX630.....	118	196	188	26.1	26.3	24.4	100	81	98	23411	24020	23187
PRINCETON SX840.....	136	202	205	31.2	27.7	28.0	100	83	99	23892	21976	22295
SEED-KEM SKX76.....	129	187		27.2	25.0		100	88		22941	23631	
SEED-KEM SKX86.....	134	196		27.0	25.3		100	93		23882	23869	
STEWART S386.....	109	160		26.5	24.6		100	98		23294	23106	
STEWART SX49.....	120	170		27.8	25.7		98	93		23411	23897	
STEWART SX70.....	138	191		28.3	26.4		96	72		23764	22881	
STEWART SX77.....	159	181		26.2	25.9		99	94		22470	23970	
STEWART SX1973.....	162			31.4			100			24000		
STEWART SX6873.....	138	202		28.2	27.5		100	84		23058	24002	
STURDY-GROW S/G 805A.....	143			27.7			100			23647		
STURDY-GROW S/G 807.....	148	216		24.3	24.8		99	88		23529	23986	
STURDY-GROW S/G 825A.....	142			27.1			100			23764		
STURDY-GROW S/G 827.....	157	195		26.0	28.4		100	83		23058	23359	
STURDY-GROW S/G 847.....	132			26.7			99			22352		
STURDY-GROW S/G 857.....	107			27.6			100			23764		
STURDY-GROW S/G EXP. 907W.....	103			29.5			99			23411		
SUPER-CROST 4242.....	120			25.0			100			22235		

Table 9a. — Urbana, Increased Planting Rate, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
SUPER-CROST 4150.....	98	174		23.2	22.7		100	87		24000	24024	
SUPER-CROST 5440.....	143	185	195	26.7	26.4	23.8	100	85	98	23764	23372	21477
SUPER-CROST S85.....	126	187	151	23.9	30.1	29.4	100	92	99	23058	22741	19750
TAYLOR-EVANS T.E. 6968.....	136	196	181	27.5	25.2	24.0	100	89	98	23647	23908	23555
TAYLOR-EVANS T.E. 6969.....	143	199	171	30.0	28.8	23.8	99	87	96	24000	23970	19454
TAYLOR-EVANS T.E. 6980.....	123	189	172	25.4	27.4	24.7	99	96	98	23411	23624	21870
TAYLOR-EVANS T.E. 6992.....	130	162	195	27.4	24.1	25.5	100	88	99	24000	23752	20169
TAYLOR-EVANS T.E. 6995.....	150	216		24.8	26.2		100	85		23647	23709	
TODD M75.....	118	187		24.8	24.6		100	91		23764	24002	
TODD M83.....	119	173		26.6	25.9		100	84		23529	23915	
TODD MX73.....	130	177	209	26.9	26.3	25.2	99	95	98	21832	23337	24011
TRISLER EXP. 377.....	134			27.6			100			23764		
TRISLER T-5150.....	116		188	24.3		21.9	99		99	24000		20944
TRISLER T-5450.....	150		220	25.7		23.0	100		99	23529		21397
TRISLER T-7350.....	142			26.5			99			23882		
TRISLER T-7500.....	128		153	27.6		26.3	100		98	23764		17746
U.S.S. 0010.....	135	162		21.8	22.0		100	93		23294	24031	
U.S.S. 1010.....	142	203		24.9	26.4		100	94		23294	21762	
VORIS V 2492.....	113			24.2			100			23529		
VORIS V 2532.....	141	206	202	25.8	24.8	23.4	99	96	99	23647	24033	23326
VORIS V 2542.....	154	173	216	27.9	25.7	25.6	100	82	99	23647	23000	22098
VORIS V 2572.....	151	213		27.6	26.5		100	80		23411	23482	
WHISNAND 80.....	132	141	175	27.4	26.4	24.3	99	89	98	24000	23596	23492
WHISNAND 81.....	148	209	206	26.4	24.5	22.5	97	90	98	23764	23759	22558
WHISNAND 83.....	117			26.1			99			23647		
WHISNAND 85.....	129	189	170	25.1	24.0	22.5	99	76	97	24000	23950	23892
AVERAGE OF 1977 ENTRIES.....	132			26.4			99			23494		
L.S.D. 10% LEVEL.....	22			2.5			2			..		
L.S.D. 30% LEVEL.....	14			1.6			1			..		
C.V.....	13			7.2			2			4		

Table 10. — West South-Central Illinois: Greenfield (Planted at 20,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
AINSWORTH X-615.....	93			19.4			89			19777		
AINSWORTH X-617.....	99			19.4			95			17666		
AMERICANA 3200.....	74		141	18.6		18.4	31		95	19444		16376
AMERICANA 4700.....	82			19.7			86			20000		
AMERICANA 5700.....	107		140	18.6		20.9	96		98	20000		15729
AMERICANA 9500.....	97			19.7			93			19444		
BO-JAC X69.....	63			21.3			87			20000		
CARGILL 966.....	106			19.7			92			20000		
CARGILL 979.....	86			19.2			92			19555		
FS 642.....	99	109		18.6	18.8		95	98		20000	19777	
FS 680.....	74	98		18.2	19.4		91	98		18888	19777	
FS 850.....	97	103	147	20.9	20.6	21.3	97	99	93	19555	19000	18459
FS 854.....	106	101	144	19.8	20.5	21.1	87	97	85	19555	19666	17579
FS 884.....	89		141	19.9		18.8	93		98	19111		18032
FUNKS G-4430.....	102			19.0			85			19555		
FUNKS G-4449.....	102	90	139	19.8	18.6	15.3	91	98	94	19666	20000	18207
FUNKS G-4507.....	110	88	151	19.6	18.2	18.2	95	99	94	20000	19444	18626
FUNKS G-4520.....	109	106		19.4	18.1		91	100		19777	20000	
FUNKS G-4574.....	58			19.4			91			19555		
FUNKS G-4626.....	105	80		19.8	19.5		97	95		19555	19888	
FUNKS G-4737.....	114	110	152	20.6	20.5	20.7	95	98	96	19777	19888	19013
FUNKS G-5666.....	79	103	155	19.0	19.3	18.7	90	93	96	19555	20000	19130
LEWIS X625.....	93	95		20.3	20.3		94	99		19111	19444	
LEWIS X718.....	86	100		20.4	15.9		90	99		19444	20000	
LEWIS X733.....	90	122	162	20.4	20.0	20.6	97	99	92	19888	19777	17000
LEWIS X758.....	96	116		19.1	17.3		79	92		19666	19888	
LEWIS X778.....	84			20.2			90			19888		
LEWIS X818.....	106			20.1			88			19333		
MCCURDY 35X70.....	99	111	148	20.7	19.8	16.7	89	98	92	19444	19444	19154
MCCURDY 35X84.....	82	87		20.0	17.7		89	99		19888	19555	
MCCURDY 35X84A.....	104			17.7			85			19444		
MCCURDY 35X88.....	122			18.8			96			19555		
MIGRO EXP-3416.....	101	113		20.9	19.7		96	95		18555	19777	
MIGRO M-0505.....	82			18.8			99			19888		
MIGRO M-0701EP.....	61			20.4			88			19222		
MIGRO M-7072.....	87	95		20.1	19.5		92	94		20000	20000	
P.A.G. 314.....	97			20.4			92			19777		
P.A.G. SX 98.....	102	90		20.3	20.3		91	95		19888	18777	
PFIZER TXS 119.....	102	93	141	21.2	20.0	20.4	92	97	98	18888	19222	18104
POCKLINGTON P-782.....	78	95		19.9	20.5		90	97		19666	19333	
POCKLINGTON P-6341A.....	79			20.0			92			19777		
POCKLINGTON P-6442.....	74			20.5			91			19555		
POCKLINGTON P-7441.....	66	94	174	19.2	21.0	19.0	93	93	99	18666	19777	17713
SUPER-CROST 4350.....	94			18.4			93			20000		
SUPER-CROST 5440.....	80			19.0			94			19444		
SUPER-CROST 5440A.....	87			19.4			92			20000		
SUPER-CROST S85.....	106			19.4			94			19555		
SUPER-CROST S85A.....	84			21.9			92			20000		
U.S.S. 1010.....	99		144	19.1		17.1	91		97	18777		17791
AVERAGE OF 1977 ENTRIES.....	92			19.7			92			19546		
L.S.D. 10% LEVEL.....	26			1.5			..			864		
L.S.D. 30% LEVEL.....	16			1.0			..			593		
C.V.....	20			5.7			6			3		

Table 10a. — West South-Central Illinois: Greenfield, Increased Planting Rate
(Planted at 24,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
AINSWORTH X-619.....	108			19.9			94			23428		
AINSWORTH X-3517.....	111	110		18.9	17.6		94	98		22285	21344	
ANDERSON SSL.....	92			17.8			93			24000		
ANDERSON SST.....	105			18.0			88			22857		
ANDERSON SS4.....	93			20.0			96			23200		
ASGROW RX90.....	133			19.4			88			23542		
ASGROW RX101.....	91			19.3			88			23657		
BO-JAC X7L	93	111	176	18.9	20.0	20.9	95	97	96	23771	23176	22224
BO-JAC X52B.....	87	104	195	19.2	19.5	17.2	86	97	98	23085	23369	24189
BO-JAC X56B.....	96			19.0			90			22400		
BO-JAC X69.....	94			19.0			94			22171		
BO-JAC X83.....	93	110	164	18.8	19.3	18.2	96	93	97	22857	23508	24438
BO-JAC X690.....	106			19.1			83			23428		
BO-JAC X923.....	111			19.6			90			23885		
CARGILL 920.....	97	94	153	18.8	18.1	19.2	95	94	97	22400	23434	21491
CARGILL 949.....	90	84	158	18.4	18.2	17.6	91	99	91	22285	23124	20528
CARGILL 966.....	108			19.3			95			23885		
CARGILL 979.....	94			18.8			92			23428		
DEKALB XL 72AA.....	102			18.5			90			22742		
DEKALB XL 72B.....	130			18.8			92			22971		
DEKALB XL 78.....	105			20.4			86			23771		
DEKALB XL 81.....	96			18.9			93			23085		
FS 642.....	101	101		19.7	18.2		95	98		22514	23821	
FS 680.....	94	105		19.6	17.7		93	97		22400	22696	
FS 850.....	92	129	163	20.1	19.9	20.1	93	96	97	22285	21089	19296
FS 854.....	119	104	172	20.1	19.6	19.8	94	92	92	21600	23578	21554
FUNKS G-4430.....	86			17.8			86			23200		
FUNKS G-4449.....	91	101	138	18.1	17.8	16.9	94	97	99	23085	22980	20767
FUNKS G-4507.....	108	97	178	19.4	19.5	18.2	93	98	97	23428	23386	21735
FUNKS G-4520.....	107	90		19.4	18.0		90	98		21600	23561	
FUNKS G-4574.....	103			19.1			91			23771		
FUNKS G-4623.....	93	103	167	20.1	19.7	19.0	95	96	97	22857	23500	23243
FUNKS G-4737.....	125	106	149	19.5	19.2	19.8	90	99	97	22971	23932	21327
FUNKS G-5666.....	81	92	158	19.2	19.3	18.4	90	97	94	22295	24030	22691
GOLDEN HARVEST H2500.....	118			19.4			96			23200		
LEWIS 802B.....	112			19.4			80			23428		
LEWIS X33B.....	96	112		19.9	18.4		91	98		23200	21629	
LEWIS X62B.....	99	113		18.8	19.3		89	97		24000	22315	
LEWIS X71B.....	99	112		19.6	15.6		92	94		23428	23496	
LEWIS X81B.....	82			20.2			91			23085		
MCCURDY MSX70.....	114			19.5			90			23200		
MCCURDY MSX34.....	107	111		18.4	18.8		84	99		21600	21890	
MCCURDY MSX34A.....	101			18.7			76			22742		
MCCURDY MSX49.....	106	98	166	20.0	19.0	20.9	92	96	95	23200	22589	21853
MIGRO M-0505.....	90			20.5			92			24000		
MIGRO M-0701EP.....	83			18.4			89			23542		
MIGRO M-7072.....	76	94	161	19.8	18.2	17.4	91	94	95	23657	23334	20053
MIGRO EXP-3416.....	102	122		19.9	18.4		96	94		23542	22927	
MUNCY-CHIEF SX662.....	99	85	156	18.8	17.5	16.0	84	96	97	22235	23544	21808
MUNCY-CHIEF SX777.....	89	104	145	18.9	18.2	18.7	92	97	97	23542	23581	19265
MUNCY CHIEF SX4050.....	87	87		19.3	22.5		92	97		22057	21679	
NORTHRUP-KING PX74.....	111		151	18.9		16.8	93		98	23314		20806
NORTHRUP-KING PX71.....	74			18.7			92			23085		
NORTHRUP-KING PX475.....	85			18.4			90			23200		
O'S GOLD SX5353.....	117			18.1			86			24000		
O'S GOLD SX5500.....	95	102		19.9	18.7		93	96		23428	21619	
P.A.G. 314.....	89			18.6			92			23428		
P.A.G. SX 95.....	103	120	171	20.2	19.5	19.3	92	95	96	23885	23871	20884
PFIZER TKS 114.....	114	81		19.6	18.5		94	99		22742	23661	
PFIZER TKS 115A.....	76	91		18.6	19.7		92	99		23200	23432	

Table 10a. — Greenfield, Increased Planting Rate, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
PFIIZER TYS 117 ¹	108	101		18.6	18.9		93	97		21942	23879	
PFIIZER TYS 119 ²	86			19.7			93			22514		
PIONEER 3184 ¹	142			22.3			97			23085		
PIONEER 3334A ¹	109		147	19.6		17.2	94		95	23657		21925
PIONEER 3369A ¹	97		156	18.5		16.9	92		95	23657		20579
POCKLINGTON P-673.....	101			19.6			87			23200		
POCKLINGTON P-6441A.....	88			19.6			92			23657		
POCKLINGTON P-7661.....	93			18.9			87			23200		
POCKLINGTON PX-6.....	94			21.2			86			23085		
STURDY-GROW S/G 805A.....	77			19.2			95			23428		
STURDY-GROW S/G 827.....	113			19.4			88			23657		
STURDY-GROW S/G 847.....	98			19.4			91			22971		
SUPER-CROST 4350.....	88			18.0			94			23542		
SUPER-CROST 5440.....	83	102	152	20.1	18.9	17.6	91	98	96	23542	23378	18183
SUPER-CROST 585.....	92	106		20.0	20.3		92	97		23200	22810	
TAYLOR-EVANS T.E. 6968.....	92	100		19.2	18.7		91	94		23885	21951	
TAYLOR-EVANS T.E. 6969.....	126	90		20.1	21.2		87	96		23771	22139	
TAYLOR-EVANS T.E. 6930.....	90	110		19.8	20.1		94	97		22628	23018	
TAYLOR-EVANS T.E. 6992.....	83	86		18.9	17.9		92	95		23428	23780	
TAYLOR-EVANS T.E. 6995.....	99	101		18.0	18.7		93	98		22971	23620	
TRISLER EXP. 377.....	98			19.7			89			23314		
TRISLER T-335.....	72	88		18.4	19.6		84	97		23314	23899	
TRISLER T-5150.....	88	82		19.3	15.4		95	95		24000	23889	
TRISLER T-5450.....	89	106		18.9	18.0		94	98		23200	23357	
TRISLER T-5500.....	96	97		18.2	17.0		90	95		23428	23955	
TRISLER T-7350.....	100	102		19.2	18.3		88	93		23085	23932	
TRISLER T-7500.....	92	94		20.3	19.2		93	97		23200	23761	
AVERAGE OF 1977 ENTRIES.....	99			19.3			91			23149		
L.S.D. 10% LEVEL.....	26			1.4			7			..		
L.S.D. 30% LEVEL.....	16			0.9			5			..		
C.V.....	19			5.5			6			4		

Table 11. — Southern Illinois: Brownstown (Planted at 18,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1978	1975	1977	1978	1975	1977	1978	1975	1977	1978	1975
AINSAORTH X-619.....	99			19.5			99			18000		
AINSAORTH X-620.....	96			19.6			98			17888		
BO-JAC X7LB.....	111	62		19.6	26.5		91	95		17777	17848	
BO-JAC X52A.....	100			18.7			96			18000		
BO-JAC X52B.....	109			19.0			91			18000		
BO-JAC X56.....	105	44		18.3	23.4		96	94		18000	17961	
BO-JAC X57.....	94		97	19.0		19.2	92		93	17555		18002
BO-JAC X83.....	114	74	119	19.2	23.0	18.1	97	97	88	18000	17999	17998
BO-JAC X990.....	96			18.4			96			17333		
BO-JAC X923.....	102			18.9			95			18000		
COKER 18.....	85			20.7			90			18000		
FS 680.....	108			17.4			91			18000		
FS 830.....	92	54	99	20.1	26.5	20.1	94	93	89	17777	17788	17998
FS 854.....	101	52	105	18.5	25.2	18.7	89	86	87	17666	17678	17999
FS 860.....	70	106	105	20.4	25.4	20.5	92	95	71	18000	18020	18002
FS 884.....	112	76	105	19.1	28.6	19.2	88	91	67	18000	18006	17999
FUNKS G-4430.....	75			16.7			86			17888		
FUNKS G-4449.....	69	22		18.8	21.4		93	88		18000	17894	
FUNKS G-4507.....	84	47	122	17.3	23.0	18.4	91	99	94	18000	17782	17997
FUNKS G-4520.....	81	35		17.4	22.3		92	93		18000	17975	
FUNKS G-4574.....	109			17.4			97			18000		
FUNKS G-4624.....	95	58	119	19.5	22.8	21.0	98	100	90	15888	17895	18000
FUNKS G-4737.....	96	73	120	18.6	27.5	19.8	97	95	90	18000	17876	18001
FUNKS G-5666.....	111	75	119	18.8	26.1	19.7	99	94	88	17777	18021	18002
HULTING X8300.....	80	49	122	19.1	21.6	18.2	90	93	83	18000	17894	18000
MCCURDY 76-29.....	78			19.0			93			17888		
MCCURDY MSP883.....	90	76		18.7	25.0		91	96		17222	17771	
MIGRO M-0505.....	97			17.8			98			17777		
MIGRO M-0701EP.....	81			17.1			88			17888		
MIGRO M-7072.....	75	71		19.2	22.3		89	95		18000	17709	
MIGRO EXP-3416.....	127	88		18.7	23.4		88	98		17888	17806	
O'S GOLD SX5353.....	101			18.9			97			17888		
O'S GOLD SX5400.....	84			17.8			95			17888		
PFISTER 65.....	96	38		17.6	22.4		96	91		17888	17717	
PFISTER 66.....	102	36		18.1	25.4		93	98		18000	17421	
PFISTER 75.....	91	41		18.3	23.5		81	96		17333	17958	
PFISTER 77.....	95	43		19.2	23.9		95	98		17666	17984	
PFIZER TAS 119.....	77	76		20.8	24.5		96	99		17444	17895	
PRINCETON SX840.....	94	88		18.4	22.6		97	94		17888	17854	
SUPER-CROST 5440.....	98			19.2			94			17888		
SUPER-CROST 5440A.....	93			18.6			95			17888		
SUPER-CROST S45.....	78			18.8			92			18000		
U.S.S. 0555A.....	80		85	18.2		14.5	91		85	17777		18004
U.S.S. 1010.....	92	65	124	17.9	26.2	17.3	93	93	79	18000	17664	18000
U.S.S. 1515.....	89	53	93	19.8	23.3	19.7	100	94	88	17888	17875	17997
VORIS V 2532.....	108			18.4			94			18000		
VORIS V 2602.....	98			18.3			91			17888		
VORIS V 2642.....	79			18.4			91			18000		
AVERAGE OF 1977 ENTRIES.....	94			18.8			93			17825		
L.S.D. 10% LEVEL.....	..			1.6			7			583		
L.S.D. 30% LEVEL.....	..			1.0			4			367		
C.V.....	21			6.1			5			2		

Table 11a. — Southern Illinois: Brownstown, Increased Planting Rate
(Planted at 22,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ADI 555.....	103			18.2			89			21025		
ADI 626.....	81			18.5			92			19902		
ADI 646.....	108			19.0			91			21899		
ADI 647.....	103			18.3			58			21178		
AINSWORTH X-516.....	70	113		18.1	24.0		80	95		20602	21888	
AINSWORTH X-518.....	85	107		19.1	21.1		86	95		21015	20888	
AINSWORTH X-617.....	129			22.3			100			19855		
ASGROW RX90.....	89		124	18.8		16.8	89		82	20686		22050
ASGROW RX100.....	73	119	124	20.3	26.7	20.9	92	99	80	21465	21777	21890
ASGROW RX101.....	75			19.3			98			22015		
BEAR 620.....	49			25.2			68			21454		
BEAR 810.....	93			18.7			92			21576		
BO-JAC X7L.....	69		97	19.5		20.3	92		100	21455		16799
BO-JAC X7LB.....	72	75	118	19.2	23.6	22.4	96	98	87	21516	21000	22097
BO-JAC X56.....	110	52	93	11.8	20.8	19.0	83	97	98	22000	22000	19325
BO-JAC X83.....	86	81	134	19.7	20.9	17.5	93	98	67	21602	21555	16621
BO-JAC X923.....	76			18.7			94			21927		
CARGILL 949.....	109	47	129	17.7	22.3	18.0	99	100	88	22058	21888	22080
CARGILL 966.....	74			18.8			90			21343		
CARGILL 979.....	64	50	112	18.9	22.5	20.2	92	92	83	21348	21222	21802
COKER 16.....	85			18.7			89			21604		
COKER 22.....	70			19.1			97			21966		
DEKALB XL 72AA*	77			18.2			93			20418		
DEKALB XL 72B*	97	109		18.9	25.5		92	96		21728	22000	
DEKALB XL 78.....	75			19.4			85			21963		
DENNIS DS31.....	156			20.7			96			19832		
DENNIS DS37.....	78			18.9			95			21684		
DENNIS DS39.....	89			18.4			91			21987		
DENNIS DS48.....	115			12.2			93			22000		
DENNIS DS69.....	112			17.0			71			21746		
FS 680.....	103			17.9			93			20388		
FS 850.....	79	91		19.7	25.3		96	97		21157	21444	
FS 854*	69	68	111	18.9	24.9	19.2	92	95	89	21442	21444	21639
FS 860.....	134	123	104	22.4	25.4	20.7	100	94	88	19814	21666	21901
FS 884.....	84	87	131	19.1	26.3	20.9	94	93	91	21617	22000	22216
FUNKS G-4430.....	51			25.1			70			21421		
FUNKS G-4449.....	90	55	141	17.4	20.7	16.2	92	96	87	21480	21111	21839
FUNKS G-4507.....	62	53	140	26.1	19.9	17.7	83	99	92	21785	21555	22039
FUNKS G-4520.....	104	48		19.4	21.0		83	96		21417	21000	
FUNKS G-4574.....	89			16.9			88			21672		
FUNKS G-4628.....	82	94	123	19.5	23.6	21.2	98	98	89	21768	22000	21921
FUNKS G-4737.....	88	101	114	17.8	26.6	20.0	97	95	85	21392	21666	21249
FUNKS G-5666.....	58	62	106	25.7	25.3	20.3	90	94	80	21637	22000	21745
GOLDEN HARVEST H2500*	54	55	129	25.1	24.2	17.7	84	100	88	21490	22000	21433
GOLDEN HARVEST H2650*	32			26.9			88			21749		
GUTWEIN 72.....	90			18.5			90			21969		
GUTWEIN 88.....	89			19.9			97			21770		
GUTWEIN 89A.....	81	77		20.4	25.1		98	94		21388	20777	
GUTWEIN EX-087.....	53			26.7			88			21393		
HOBLIT XR441A.....	74	103		18.8	25.2		94	97		21890	22000	
LANDERS 9915.....	55			19.2			92			21764		
LANDERS 9917.....	102			11.9			82			22000		
LANDERS 9919.....	100			18.5			95			21696		
LEWIS 802B.....	71			18.4			97			21359		
LEWIS X77B.....	81			17.9			96			22000		
LEWIS X78B.....	105	101		11.0	25.6		84	99		22000	21000	
LEWIS X81B.....	103			23.0			100			19695		
LEWIS X82B.....	87			18.8			96			21433		
LEWIS X84B.....	45	104	128	27.2	24.6	21.6	90	97	88	20558	21555	22053
MCCURDY MSX70.....	75	81		17.7	21.9		96	98		21236	20888	

Table 11a. — Brownstown, Increased Planting Rate, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
MCCURDY MSX88.....	62	115		26.3	24.9		87	97		21015	21111	
MIGRO M-0505.....	100			11.5			81			22000		
MIGRO M-0701EP.....	46			17.6			92			21747		
MIGRO M-7072.....	88	62	129	17.3	24.2	18.8	85	91	87	21664	21777	22019
MIGRO EXP-3416.....	109	12		19.1	23.2		90	95		21740	22000	
NOBLE NB 2551.....	70			16.2			94			21759		
NORTHRUP-KING PX74.....	141		124	11.7		17.3	83		87	22000		21729
NORTHRUP-KING PX79.....	62		101	17.8		19.0	95		92	21899		21803
NORTHRUP-KING PX95.....	61			21.6			78			21648		
NORTHRUP-KING PX575.....	69		117	17.5		17.4	94		88	21903		21738
O'S GOLD SX5353.....	143			21.3			100			19253		
O'S GOLD SX5400.....	76			17.8			86			21822		
P.A.G. 314.....	72			18.2			93			21808		
P.A.G. SX 98.....	75	61	121	19.2	25.3	20.0	97	97	87	21968	21444	20418
PFIZER TXS 114.....	129	77	120	10.8	21.3	17.1	80	97	92	22000	21555	21994
PFIZER TXS 115A*.....	84	45	129	18.2	21.7	18.6	81	99	91	21643	21444	22006
PFIZER TXS 117A.....	118	51		10.4	23.3		83	99		22000	20666	
PFIZER TXS 119.....	64		116	19.0		18.8	96		88	21940		22153
PIONEER 3334A*.....	61	103	118	18.7	26.5	19.2	95	95	92	21069	21666	21924
PIONEER 3369A*.....	151	103	99	21.6	21.9	18.7	100	96	69	18782	21666	21340
PIONEER 3780*.....	65			16.3			95			21702		
POCKLINGTON P-782.....	64			19.0			88			21987		
POCKLINGTON P-813.....	50			18.2			90			21976		
POCKLINGTON P-7441.....	75		128	19.0		18.1	93		86	21617		22235
POCKLINGTON PX-8.....	72	89		19.4	24.5		95	97		21550	20666	
PREMIER SX633.....	86	41		18.1	24.1		88	97		21398	20666	
PREMIER SX655.....	66			18.7			94			21992		
PREMIER SX688.....	49	80		20.0	24.7		98	98		21968	21555	
PRINCETON SX480.....	73			18.2			78			21738		
PRINCETON SX840.....	59	109		20.6	26.1		98	98		22110	21444	
RING AROUND RA 1501.....	121			22.4			100			18749		
STURDY-GROW S/G 805A.....	72			18.3			79			21529		
STURDY-GROW S/G 827.....	149			21.8			100			18576		
STURDY-GROW S/G 847.....	94			18.9			87			22059		
SUPER-CROST 5440.....	71	56		18.7	23.0		90	98		21886	21666	
SUPER-CROST 585.....	39			27.0			91			21625		
TAYLOR-EVANS T.E. 6947.....	45			20.5			91			21974		
TAYLOR-EVANS T.E. 6968.....	89	83	135	17.6	24.7	17.9	92	95	86	22112	22222	21828
TAYLOR-EVANS T.E. 6969.....	117			10.9			85			22000		
TAYLOR-EVANS T.E. 6992.....	76	62	136	18.4	24.1	18.0	93	93	85	21749	21777	21816
TAYLOR-EVANS T.E. 6995.....	73	50		18.1	21.9		96	98		22059	21777	
TODD M75.....	97			10.2			80			22000		
TODD M88.....	89			18.0			86			21797		
TODD MX73.....	139			24.1			100			19009		
U.S.S. 0010.....	92			17.6			78			21599		
VORIS V 2592.....	135	62		22.6	22.1		100	95		19604	20555	
VORIS V 2602.....	65			17.8			93			21256		
VORIS V 2642.....	37	90	121	20.4	24.3	20.9	96	99	88	21907	21666	21902
AVERAGE OF 1977 ENTRIES.....	77			18.7			92			21621		
L.S.D. 10% LEVEL.....	..			1.6			10			1431		
L.S.D. 30% LEVEL.....	..			1.0			6			901		
C.V.....	25			6.5			8			5		

Table 12. — Extreme Southern Illinois Upland: Carbondale (Planted at 18,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO AR38755.....	114			18.2			99			17478		
ACCO UC 8951.....	86			18.6			99			16309		
ACCO UC 9792.....	98			18.8			95			17569		
BO-JAC X69.....	84			15.5			99			16329		
BO-JAC X83.....	105	97		17.2	20.4		98	97		17976	17829	
BO-JAC X923.....	127			18.8			100			16954		
COKER 18.....	75	65		17.0	21.1		97	97		18625	17739	
FS 680.....	118			16.1			98			16446		
FS 850.....	105			17.5			96			17232		
FS 854.....	83	86	82	16.8	20.9	26.2	98	92	94	15656	17629	18000
FS 860.....	111	92	100	19.3	20.4	26.4	96	94	97	15679	18053	17892
FS 884.....	88	118	83	19.4	21.0	25.2	99	95	88	17752	17970	17892
FUNKS G-4507.....	111	100	68	16.4	18.0	23.4	98	98	97	17269	17271	17785
FUNKS G-4520.....	93	104		16.3	19.0		99	97		14095	17855	
FUNKS G-4574.....	93			16.6			96			18322		
FUNKS G-4628.....	104	82	59	17.5	19.3	26.1	97	99	97	16221	17468	17571
FUNKS G-4737.....	82	47	72	18.3	19.7	24.9	93	92	93	17241	17610	18000
FUNKS G-4747W.....	91	140	118	19.6	22.0	25.5	97	96	94	17341	17922	18000
FUNKS G-5666.....	72	76	73	17.8	20.9	23.8	98	95	93	17049	17370	17357
HULTING X880.....	82			16.8			96			17031		
HULTING X8800.....	97			16.7			98			16356		
P.A.G. SX 17A.....	113			17.3			96			16884		
PFIZER TXS 119.....	97			17.1			97			17921		
PRINCETON SX840.....	90	105	80	18.7	20.1	25.1	96	95	93	16937	17843	17571
TRISLER EXP. 377.....	102			16.6			98			15608		
TRISLER T-335.....	93	134		15.6	19.4		97	97		16793	17901	
TRISLER T-5150.....	78	61		16.0	18.3		99	96		17699	18045	
TRISLER T-5450.....	100	71		16.0	16.5		99	94		18132	16753	
TRISLER T-5500.....	83	104		16.6	18.0		98	94		17541	17846	
TRISLER T-7350.....	88	106		17.5	19.2		98	96		17797	16530	
TRISLER T-7500.....	91	72		16.0	17.7		97	100		15990	17797	
ZIMMERMAN Z-11-W.....	102			20.5			96			16695		
ZIMMERMAN Z-19-W.....	103			19.4			94			13798		
ZIMMERMAN Z-52-W.....	100			19.5			98			17242		
AVERAGE OF 1977 ENTRIES.....	94			17.5			98			16864		
L.S.D. 10% LEVEL.....	17			1.1			..			..
L.S.D. 30% LEVEL.....	11			0.7			..			..
C.V.....	13			4.8			3			9		

Table 12a. — Extreme Southern Illinois Upland: Carbondale, Increased Planting Rate
(Planted at 22,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO UC 8951.....	136			19.1			95			21000		
ACCO UC 9792.....	76			18.8			98			21000		
BO-JAC X7L.....	87			16.1			97			17444		
BO-JAC X52A.....	120	116	97	16.5	20.1	27.1	99	92	97	18444	19967	21266
BO-JAC X52B.....	96			17.4			98			19111		
BO-JAC X56.....	113	124		15.5	20.8		96	87		18555	21865	
BO-JAC X56B.....	114			16.8			98			18111		
BO-JAC X83.....	111	125	106	18.6	19.3	25.8	98	92	99	17777	21391	21476
BO-JAC X193.....	111			16.1			99			19888		
BO-JAC X347.....	108			15.3			98			20000		
BO-JAC X847.....	84			16.8			100			19888		
CARGILL 949.....	104			16.4			100			16777		
CARGILL 966.....	111			16.7			99			19555		
CARGILL 979.....	101			16.9			98			15111		
COKER 19.....	125	127		17.4	19.1		97	90		19888	21150	
COKER 22.....	120			19.2			98			17222		
DEKALB XL 72AA.....	116			16.2			97			21333		
DEKALB XL 72B.....	118	127		16.5	20.7		100	94		21000	20638	
DEKALB XL 75.....	120			17.3			99			19333		
FS 680.....	129			15.7			98			19444		

Table 12a. — Carbondale, Increased Planting Rate, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
PS 850.....	101	101		17.7	19.7		98	90		22000	21413	
PS 854.....	101	95	114	18.0	21.5	26.9	99	85	97	17555	21984	20533
PS 860 ²	103	138	128	19.6	21.9	27.5	99	91	98	20777	21659	21790
PS 884.....	124			18.4			98			19777		
FUNKS G-4507.....	112	87	83	17.4	17.8	25.2	100	89	98	18222	21115	18857
FUNKS G-4520.....	119	127		17.8	20.7		99	82		18888	21531	
FUNKS G-4574.....	111			15.6			97			20000		
FUNKS G-4628.....	86	94	95	16.7	18.2	28.5	98	72	99	15222	20413	21685
FUNKS G-4737.....	124	82	106	18.5	20.0	28.1	97	90	96	20000	21710	21161
FUNKS G-4747 ²	101			19.7			98			21000		
FUNKS G-5656.....	81	111	93	18.9	18.6	26.3	97	87	94	19777	21610	21476
MCCURDY 72-44A.....	109	120		18.8	19.3		95	93		19666	21862	
MCCURDY 76-92.....	104			19.0			98			17222		
MCCURDY MSX88.....	107	132		16.8	17.7		97	74		19444	21331	
NORTHRUP-KING PX74.....	111	109	99	16.9	16.3	25.3	98	86	96	18333	20945	20847
NORTHRUP-KING PX79.....	87	116	84	16.5	18.5	25.8	100	92	99	19333	21211	21580
NORTHRUP-KING PX95.....	97	135		20.6	21.1		96	91		19666	20993	
NORTHRUP-KING PX675.....	90	110	84	16.0	17.1	26.9	99	94	97	20555	21421	21895
NORTHRUP-KING PX715.....	97	113		19.6	21.0		96	98		17444	21953	
P.A.G. 314.....	85	83		15.6	19.3		99	70		20444	21688	
P.A.G. EXP. 246006.....	125			16.6			100			18111		
P.A.G. SX 17A.....	38			16.8			97			21888		
P.A.G. SX 98 ²	103	107		17.4	19.5		98	94		19444	18524	
PFIZER TXS 114.....	121	100		16.0	19.4		96	96		17555	21947	
PFIZER TXS 115A.....	116	120	74	17.0	18.8	26.2	98	93	96	19666	21591	21371
PFIZER TXS 117A.....	108	89	93	17.0	17.2	27.0	99	91	98	18666	20776	22104
PFIZER TXS 119 ²	110	109	100	19.0	20.5	27.7	99	94	96	19888	19289	20638
PIONEER 3184 ²	121			19.1			94			20000		
PIONEER 3331 ²	90			17.7			99			19777		
PIONEER 3334A ²	93	109	81	16.9	18.5	27.0	98	91	97	21111	21453	22000
PIONEER 3368A ²	99			16.7			99			15111		
PIONEER 3369A ²	129	117	106	15.9	18.3	26.6	97	93	97	19444	21777	21057
POCKLINGTON P-813.....	91	122		16.5	21.5		98	82		19333	21653	
POCKLINGTON P-880.....	105			19.0			95			18111		
POCKLINGTON P-7661.....	122		96	16.3		27.1	94		97	20555		21580
PRINCETON SX850.....	94			18.2			98			16555		
RING AROUND RA 1501.....	120			16.6			98			18666		
SEED-KEM SKX86.....	90			16.6			98			17555		
SUPER-CROST 5440.....	126			16.2			98			20000		
SUPER-CROST 585.....	140			16.2			97			15888		
TAYLOR-EVANS T.E. 6947.....	105			19.7			99			17222		
TAYLOR-EVANS T.E. 6968.....	98	116	103	17.6	19.4	27.9	98	95	97	18555	20624	20533
TAYLOR-EVANS T.E. 6969.....	82	119	78	18.6	20.9	29.4	95	88	99	16666	21808	19695
TAYLOR-EVANS T.E. 6980.....	94		99	17.7		27.1	100		97	17222		20638
TAYLOR-EVANS T.E. 6992.....	104	88		16.0	17.8		99	88		19444	21100	
TAYLOR-EVANS T.E. 6995.....	111			16.4			99			18444		
WHISNAND 80.....	84	102		17.0	18.3		96	96		18333	21230	
WHISNAND 85.....	104	117		16.4	18.1		100	94		20444	20361	
ZIMMERMAN Z-11-W.....	88			19.3			96			21555		
ZIMMERMAN Z-19-W.....	89			18.8			97			17777		
ZIMMERMAN Z-20-Y.....	105			18.4			88			10777		
ZIMMERMAN Z-24-Y.....	113			17.2			97			19333		
ZIMMERMAN Z-52-W.....	106			19.4			96			20888		
AVERAGE OF 1977 ENTRIES.....	104			17.5			98			19071		
L.S.D. 10% LEVEL.....	25			1.3			..			..
L.S.D. 30% LEVEL.....	16			0.8			..			..
C.V.....	18			5.6			3			15		

Table 13. — Extreme Southern Illinois Bottomland: Dixon Springs
(Planted at 20,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ACCO AR53235.....	118			21.2			88			20000		
ACCO UC 9792.....	163			21.1			97			19000		
BO-JAC X7L.....	117			20.1			72			20000		
BO-JAC X56.....	135	192		18.9	22.9		65	97		20000	20002	
BO-JAC X563.....	133	191		19.2	23.2		93	96		20000	19591	
BO-JAC X33.....	131	182	184	20.3	22.8	25.3	87	98	96	20000	19881	19770
BO-JAC X923.....	169			21.6			96			19111		
COKEK 18.....	135	181		21.9	24.1		79	99		19777	19979	
COKEK 22.....	155	195		21.3	26.0		96	100		19666	19814	
FS 850.....	123			20.3			79			20000		
FS 854.....	117	180	178	21.8	26.6	27.3	76	97	78	19444	20010	18674
FS 860.....	117	176	164	22.6	28.7	25.9	59	97	91	19838	19977	19698
FS 884.....	122		130	21.2		25.5	80		78	20000		18880
FUNKS G-4507.....	128	163	168	18.8	22.8	24.0	71	100	96	19888	19389	19450
FUNKS G-4520.....	156	175		18.8	23.8		100	98		17222	19982	
FUNKS G-4574.....	113			19.3			77			19777		
FUNKS G-4628.....	110	157	147	20.4	25.4	24.8	88	96	91	18444	20002	19813
FUNKS G-4737.....	148	165	163	20.9	25.7	27.6	97	97	95	19333	20001	18908
FUNKS G-4747.....	120	187		22.6	27.9		83	98		19777	20000	
FUNKS G-5666.....	106	172	155	20.4	23.8	26.3	83	99	94	19888	20020	19440
HOBLET X3448A.....	150			19.8			93			20000		
HULTING X980.....	140	179		19.9	25.0		80	98		19555	19983	
MCCURDY 67-14.....	126	150	182	23.6	31.1	27.6	84	100	94	19555	19992	18876
MCCURDY 76-29.....	150			21.4			37			19444		
MCCURDY MSP388.....	127	177		19.3	24.7		83	98		19777	19996	
O'S GOLD SX5353.....	122			19.7			81			20000		
O'S GOLD SX5400.....	129			20.5			83			19888		
PFIZER TXS 119.....	126	157		21.4	25.8		76	97		20000	19985	
POCKLINGTON P-880.....	104			21.0			77			20000		
POCKLINGTON P-6342.....	132	147	127	19.7	22.6	24.7	99	99	93	20000	19980	18696
PREMIER SX633.....	123	168		18.9	22.3		92	98		19333	19437	
PREMIER SX655.....	110	129	157	19.4	25.0	25.4	94	100	92	19888	19105	18852
PREMIER SX688.....	126	180	182	21.3	24.2	26.1	92	100	98	19444	19114	19918
PRINCETON SX840.....	156	201	190	20.6	24.7	28.1	91	97	97	20000	20024	19713
PRINCETON SX910.....	120	169	179	22.0	28.3	29.4	92	99	97	19222	20002	19609
U.S.S. 1515.....	127	197	158	20.6	21.6	25.2	93	99	95	20000	19989	20084
WHISNAND 81.....	135	197		19.0	21.7		61	98		19444	19016	
WHISNAND 85.....	137	162	161	20.4	21.4	24.3	93	99	94	20000	19996	19564
ZIMMERMAN Z-11-W.....	152	186		21.0	28.0		84	99		19666	20020	
ZIMMERMAN Z-19-W.....	131			19.9			86			18777		
ZIMMERMAN Z-20-Y.....	122			21.7			76			20000		
ZIMMERMAN Z-24-Y.....	150	186		19.7	23.8		96	99		19888	19892	
ZIMMERMAN Z-52-W.....	144	175		21.8	29.8		92	99		19333	19993	
AVERAGE OF 1977 ENTRIES.....	132			20.4			85			19658		
L.S.D. 10% LEVEL.....	24			1.0			..			..
L.S.D. 30% LEVEL.....	16			0.6			..			..
C.V.....	14			3.6			18			4		

Table 13a. — Extreme Southern Illinois Bottomland: Dixon Springs, Increased Planting Rate
(Planted at 24,000 plants per acre in 30-inch rows)

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
ASCO AR33755.....	160			20.5			48			23556		
ASCO UC 3951.....	134	201		20.5	24.4		52	99		23873	23195	
ASGROW SX90.....	103	174	200	18.8	21.3	24.3	44	99	94	23767	23600	21960
ASGROW SX101.....	113	140		19.6	25.6		83	98		23407	20551	
ASGROW SX4589.....	117	189		19.6	23.0		63	97		23406	22757	
BO-JAC X7L.....	104	177	180	18.7	25.2	27.8	90	98	88	23427	24093	23570
BO-JAC X52A.....	124	192	200	19.4	24.2	23.3	78	95	97	23734	22287	22941
BO-JAC X523.....	135			19.0			76			23207		
BO-JAC X56.....	105	189	178	18.9	22.7	26.8	42	98	96	24006	23732	21532
BO-JAC X33.....	156	194	202	19.4	25.5	26.2	90	99	98	23997	23545	21877
BO-JAC X193.....	138			19.0			85			24001		
BO-JAC X347.....	114			17.5			28			23932		
BO-JAC X347.....	116			17.6			37			23539		
BO-JAC X323.....	146			20.5			54			24009		
CARGILL 949.....	109			18.7			38			23935		
CARGILL 305.....	129			19.6			73			23770		
CARGILL 979.....	108			20.1			69			23997		
COKER 10.....	151	161		20.1	22.3		81	96		23891	23339	
DEKALB XL 72A.....	111			19.2			33			24002		
DEKALB XL 723.....	149	174		19.4	25.4		96	99		22848	23958	
DEKALB XL 75.....	122	196		18.1	23.4		63	99		22728	23587	
FS 850.....	135			19.6			47			23767		
FS 854.....	110	194	175	21.0	27.3	28.1	73	96	94	22727	23451	22393
FS 868.....	104		151	21.3		27.8	26		92	23543		21556
FS 981.....	105	163		20.6	26.0		69	98		23550	23783	
FUNKS G-4507.....	127	172	176	19.0	21.5	27.7	42	97	94	23991	21810	22296
FUNKS G-4520.....	135	211		19.2	23.7		32	96		24020	23798	
FUNKS G-4574.....	102			18.7			30			23196		
FUNKS G-4623.....	102	155	159	20.5	24.3	24.7	75	96	98	23175	23384	22082
FUNKS G-4737.....	121	176	163	21.0	24.2	28.2	87	100	98	24029	24056	22812
FUNKS G-4747A.....	105			20.4			51			22965		
FUNKS G-566.....	105	165	186	20.1	24.2	26.7	71	99	98	23310	23309	22431
MCCURLEY SX470.....	114	219		18.5	24.5		42	99		23660	23738	
MCCURDY SX488.....	120			20.8			40			23996		
MUNCY-CHIEF SX 498.....	123	153	159	20.6	26.1	25.1	81	99	98	22503	22573	17641
MUNCY-CHIEF SX662.....	114	160	168	18.7	22.2	24.9	84	97	98	23131	23958	22968
MUNCY-CHIEF SX777.....	115	175	172	18.0	22.4	24.9	66	99	97	23432	22476	22672
MUNCY CHIEF SX8083.....	136	167		21.2	25.2		98	99		21384	22605	
NORTHRUP-KING PX74.....	97	188	185	18.8	19.7	25.6	23	97	97	24014	23209	21396
NORTHRUP-KING PX79.....	124	170	171	18.9	23.5	25.9	76	98	97	24009	23447	21161
NORTHRUP-KING PX95.....	158	215		22.2	25.5		100	98		23765	23955	
NORTHRUP-KING PX715.....	162	174		21.1	26.8		92	95		23998	22842	
O'S GOLD SX353.....	140			19.0			79			24001		
O'S GOLD SX3400.....	158			19.9			78			23653		
P.A.G. SX 17A.....	70			18.1			16			23863		
P.A.G. SX 93.....	108	195	157	20.1	26.5	26.7	39	99	88	23648	24026	22899
PFIZER TXS 114.....	161	193	197	19.7	24.2	26.7	57	95	98	22967	23695	22238
PFIZER TXS 115A.....	139	196	193	18.9	21.6	24.2	43	99	94	23660	23491	21274
PFIZER TXS 117A.....	94	151		18.7	25.9		50	99		23536	24058	
PFIZER TXS 119.....	123		179	20.9		24.2	67		95	23320		20833
PIONEER 3154.....	155			21.6			60			23296		
PIONEER 3354A.....	95	161	141	20.5	24.2	24.2	91	99	99	23307	24011	23734
PIONEER 3369A.....	155	203	185	18.9	24.3	26.2	85	98	98	23653	23224	22394
POCKLINGTON P-782.....	111			19.7			67			23642		
POCKLINGTON P-813.....	81	185		19.2	23.2		53	97		23892	21098	
POCKLINGTON P-7861.....	129	172	171	18.3	22.9	26.7	68	97	92	24002	23277	22903
POCKLINGTON PX-8.....	104	185		20.8	25.0		68	98		23339	23322	
PREMIER SX633.....	105	164		18.8	21.4		49	100		23330	23779	
PREMIER SX655.....	123		171	18.7		24.9	87		95	23190		22919
PREMIER SX688.....	137	189	195	20.3	26.5	26.2	79	100	99	22979	23218	21745

Table 13a. — Dixon Springs, Increased Planting Rate, continued

BRAND AND VARIETY	TOTAL YIELD BU./ACRE			GRAIN MOISTURE PERCENT			ERECT PLANTS PERCENT			PLANTS PER ACRE		
	1977	1976	1975	1977	1976	1975	1977	1976	1975	1977	1976	1975
PRINCETON SX340.....	144	168	205	21.0	28.3	25.9	89	99	99	23774	24004	20713
PRINCETON SX850.....	121	149	206	19.7	23.6	24.4	81	99	97	23534	23360	23178
PRINCETON SX910.....	120	185	177	21.0	28.9	27.6	83	99	96	23297	21917	23212
STURDY-GROW S/G 805A.....	130			20.0			66			22170		
STURDY-GROW S/G 826.....	148			20.9			98			23641		
STURDY-GROW S/G 847.....	123			19.6			74			22842		
STURDY-GROW S/G EXP. 907W.....	116	182		19.4	28.6		72	98		23768	23932	
STURDY-GROW S/G 935W.....	121			20.7			73			22971		
STURDY-GROW S/G 937S.....	127			21.2			73			22739		
STURDY-GROW S/G 947W.....	120			20.4			90			23421		
STURDY-GROW S/G 957W.....	137			19.8			70			24003		
SUPER-CROST S85.....	98			18.8			17			22999		
SUPER-CROST S85A.....	109			20.4			75			23082		
TAYLOR-EVANS T.E. 6947.....	133			20.6			78			22299		
TAYLOR-EVANS T.E. 6968.....	152	165		18.9	22.8		94	98		23427	23620	
TAYLOR-EVANS T.E. 6969.....	109	157		21.0	26.9		33	93		23879	24004	
TAYLOR-EVANS T.E. 6980.....	121	172		19.9	27.9		33	99		23660	23645	
TAYLOR-EVANS T.E. 6992.....	135	175		18.7	22.6		55	96		23430	23024	
TAYLOR-EVANS T.E. 6995.....	124	189		18.8	23.1		18	93		23307	23764	
U.S.S. 0555A.....	139			18.2			70			24003		
U.S.S. 1010.....	74	186		18.7	25.3		31	100		22423	23865	
WHISNAND 80.....	122			19.8			76			23185		
WHISNAND 81.....	112	182		18.2	23.2		21	98		24003	23523	
WHISNAND 82.....	119	191		17.6	21.8		56	93		23787	22249	
WHISNAND 85.....	103	171		18.3	23.3		97	99		24025	23902	
ZIMMERMAN Z-20-Y.....	159			21.4			75			23314		
ZIMMERMAN Z-24-Y.....	179		191	19.4		26.7	84		96	23757		23441
AVERAGE OF 1977 ENTRIES.....	122			19.7			63			23499		
L.S.D. 10% LEVEL.....	31			0.9			29			..		
L.S.D. 30% LEVEL.....	20			0.5			18			..		
C.V.....	19			3.5			32			4		



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